

Multani Mal Modi College, Patiala

Policy Document on Environment and Energy Usage

Policy Objectives:

- To sensitize students towards a Clean, Green, and Sustainable Environment.
- To optimize the use of water and energy.
- To use LED/CFL bulbs and other energy-saving devices on the campus.
- Proper handling of solid waste from the campus.
- Encourage the use of public transport and car-pooling for minimizing fuel consumption.
- Smoke-free and tobacco-free campus.
- To restrict single-use plastics.
- To adopt methods for water recycling and rainwater harvesting

Policy:

- To provide a clean and green environment in and around the campus, it has been decided to take sustainable initiatives for environmental protection and efficient energy usage.
- Despite the relatively small campus, majority of the open areas to be covered with natural greenery.
- The college has to adopt means for energy saving, proper management of waste, and underground water recharging with rainwater.

Policy Implementation:

To achieve the objectives, the college has already implemented its environmental policy in the following areas:

Energy Saving: The staff members and students lead initiatives to save significant electricity and have developed a policy for reducing electricity

consumption by using LED and replacing the old tube lights with LEDs. The students commuting from far-off places use the public transport system as the bus pass facility at subsidized rates is extended to them by the college which is provided by state Govt. Many of the staff members use car-pooling and/or two-wheelers. All the computer monitors have been replaced with LED/LCDs displays. Replacement of old appliances like lights, fans with energy-efficient appliances is underway. The process of the paperless office and use of e-documents for routine work has been started.

Smoke-Free and Tobacco-Free Campus: Authorities have taken suitable steps for a Smoke-free and Tobacco-free campus. The relevant placards are displayed to highlight the need for a clean, green, and sustainable environment.

Say No to Plastics: Minimum or no use of plastics is practiced by students, staff, faculty, and visitors on the campus. The waste collection bins are kept in appropriate places and managed accordingly.

Solid and Liquid Waste Management: Multani Mal Modi College Patiala has taken several initiatives under Solid Waste Management and Water Conservation. A separate area has been set up on the campus for the segregation of solid waste like plastic bottles, wrappers, cardboard, broken glasses, e-waste etc. These wastes are kept in colored bins as per standard guidelines. A government authorized Rag picker usually collects this waste once in a week. The College has constructed compost pits for making compost from the garden waste such as leaves and grass clippings. Initially, six pits have been constructed; two honeycomb type (above ground surface) and four below the ground surface.

Biomedical waste Management: This category of waste includes waste sharps (lancets etc.) and soiled waste (cotton contaminated with blood). To reduce the misuse of used waste sharps it is properly chemically sterilized and broken before disposal. Used soiled wastes are discarded after proper autoclaving.

E-Waste Management: To reduce e-waste, old computer systems are sold to those dealers who upgrade them and sell them again in the market.

Waste Recycling System: College has hired a government authorized Rag or waste picker who usually collects recyclable and non-recyclable waste once in a week.

Hazardous Chemical and Radioactive Waste management: Waste of biological origin is converted into manure through composting and it being used in place of chemical fertilizers in the Botanical garden. Spent media and used cultures are discarded after proper autoclaving. It keeps the environment clean and healthy. In the backyard of the Chemistry laboratory, there is a small plant conservatory where plants have been grown specially to absorb air pollutants and various obnoxious gases emitted during experimentation. The plants grown for this purpose are Plumaria alba, Greevelia robusta, Psidium guava, Mangifera indica, Cycas besides various wild plants.

Water Recharging: The College has constructed rain-water recharging system. Whole of the campus rain water is fed to the underground water table that leads to optimum use of rain water. This leads to maintenance of water table in and around the campus.

In coming years the college will adopt measures for recycling of water and other waste-products recycling.