



# Office-Principal

## Govt. Jagannath Munnalal Choudhary Mahila Mahavidyalaya, Mandla, Madhya Pradesh



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Towards Excellence...

College Code: 3502

## Clean and Green Environment Policy

The Green Campus Policy of the college envisions a Clean and Green Campus where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices in the campus and beyond the campus. It also offers the institution an opportunity to take the lead in redefining its environmental culture through instilling environmental ethics among the students and staff.

### Mission:

- To create environmental consciousness among society and actively involve in the activities to protect the planet earth from the unscrupulous human invasions for a sustainable, pollution-free and healthy life ahead.

### Objectives:

- To sensitize the students and the staff to minimize the use of polluting products and use environmentally friendly products and services.
- To instill the importance of cleanliness for a healthy life.
- To Create awareness about environmental issues by organizing Events, Rallies, Awareness Campaigns, Cleanliness Drives, Seminars, Workshops, presentations, Tree Plantation Drives, Wildlife Photography Competitions, Rangoli Competitions, Essay Competitions, Bird Watching Programs, Excursions, Study Tours, Guest Lectures and Talks.
- To make students and staff aware about raising voice against the hazardous practices destroying Nature and promote environmentally friendly practices among the society.

### Initiatives Taken to Implement the Clean and Green Campus Policy:

The Institution is committed to managing its campus in accordance with its Clean and Green Campus Policy by establishing the following infrastructure and carrying out the following activities:

- Landscaping with Trees and Plants
- Ban on Single-Use Plastic
- Observance of Green Thursday to Restrict the Use of Petrol/Diesel Vehicles
- Streetlights Controller
- Use of LED Bulbs/Tubes and Power Efficient Equipment
- Rainwater Harvesting
- Paperless Office and Communication
- Solid Waste Management
- Laboratory liquid waste management system through percolation system
- Hazardous Chemical Waste Management
- Water Management
- E-waste Management
- Display Boards to Promote Environmental Sensibility on College Campus
- Installation of Incinerator in the Girls' Common Room

- Observance of Days to protect and Nurture Environment
- The Energy Audit
- Dedicated Section for the Environment Consciousness in a creative Wall Magazine.

### Landscaping with Trees and Plants:

As per the Clean and Green Policy of Govt. J.M.C. Mahila Mahavidyalaya, Mandla, M.P., the college strives to plant various types of ornamental and medicinal variety, wild plant species of trees in large numbers within and outside the campus. Gardeners and full-time adequate support staff have been appointed for the maintenance of gardens and keeping the campus litter-free, clean and Green Campus. The College Garden is looked after and maintained by the Department of Botany.

The tree-plantation drives are undertaken by the NSS Unit of the college and also by the Departments of Botany, Zoology and the Environment Science on a regular basis generally in the month of July every year.

### Ban on Single-Use Plastic:

The campus of the institution is a plastic-free campus where there is a complete ban on single-use plastics in classrooms, laboratories, canteen, hostel, and in the whole premises. The college facilitates environment friendly substitutes like stainless steel, washable and reusable tumblers at all water units and mandates the canteen to serve only in stainless steel or paper plates/glasses/cups to systematically ban the use of plastics on the campus.

### Observance of Green Thursday to Restrict the Use of Petrol/Diesel Vehicles:

As per the suggestion of the Department of Environment Science of the college and also to ensure environmental consciousness, It is unanimously decided on the Ozone Day, 16<sup>th</sup> September, 2019 by the college administration including the Teaching and Non-teaching staff of the college that now onwards, every Thursday will be observed as 'Green Thursday' in the college campus and that the students and the staff of the college will be promoted to make use of bicycles, battery-operated E-bikes and the petrol/diesel vehicles will be restricted inside the college campus.

### Streetlights Controller:

To minimize the use of electricity consumption and make the maximum utilization of the available resources, the college has installed Solar Photovoltaic Device with 20Wp PV module, 12Ah SMF battery, PWM Charge Controller, PV current sensing system for Dusk to Dawn fully automatic ON/OFF switching of streetlights. 04 Sensor-based LED Solar Power Street Lights are installed from the entrance to the college.

### ***Use of LED bulbs/ Power-Efficient Equipment***

More than 95% of electric lights and all the computers of the college are LED enabled. The other equipment is also purchased considering their power-efficiency.

### Rainwater Harvesting:

The college ensures rain-water conservation through rainwater harvesting. The rainwater from the roof top outlets is carried through the well-connected pipelines to the wells or is collected in the large water harvesting tanks and the overflowing rainwater from these tanks is discharged in the soak-pits for ground water recharge.

Rainwater collected in the tank is supplied to the plants in the Medico- Botanical Garden of the college.

The college has established 02 tanks in the backyard of the college's main building. In addition to this, the overflowing rainwater from these tanks is carried to the soak pit for ground water recharge. Excess Water in the Water Harvesting Water Collection Tanks is discharged in the Pit for Groundwater Recharge.



### **Paperless Office and Communication: -**

The college has a policy to minimize the use of paper in all types of official/academic communication of the college through E- Communication. The use of paper is substantially reduced through digitization. One-side blank pages are used to avoid wastage of paper. All the college staff have been provided with the college E-mail IDs and through which they make all the required official and college-related communication. What's App-Class-wise groups, Department wise groups, Committee wise groups have been formed which have reduced the usage of paper in notices and circulars. Moreover, the college has avoided massive usage of paper by introducing the "Learning Management System" wherein references, notes, syllabi, question banks, study material are stored and shared on the e-platform. Some departments have also started accepting E-assignments.

This practice has proved highly beneficial to save money, boost productivity, save space, make documentation and information sharing easier, and help the environment.

### **Solid waste Management:**

The Solid waste generated in the campus is segregated as biodegradable and non-degradable and handed over to Mandla Municipal Corporation as a part of *Swachh Bharat Abhiyan* and "Our Mandla, Clean Mandla"

All the Departments, laboratories, and Classrooms are provided with dustbins for dry wastage disposal. Segregation of the waste into dry and wet waste is done through the separately allotted dustbins at strategic locations in the college.

### **Vermicompost Unit:**

The Vermicompost Unit is established in the Medico-Botanical Garden of the Department of Botany. The students of the department actively involve themselves in running this unit. The organic waste material is collected from the college campus by the students to deposit it in the special vermicompost tank. Using cow dung and Earthworms, the soil mixture is made with appropriate proportions. With the help of students and farmers this mixture is installed in the tank and watered properly for 4-8 weeks. First flush of pure, odorless and granular, soft vermicompost is obtained. Technical protocol and support are provided to the students and farmers in case of mass production.

Verm wash, a liquid can be obtained from the tank by pipe in case of excessive water. This extension activity of the Botany Department promotes Vermicomposting awareness among the students and the farmers for eco-friendly organic farming.

Apart from the organic waste in the college campus, the raw material for the tank is provided by the "Eco friends" of the department who collect the used pooja Material like the garlands, flowers, bouquets. in a 'Nirmalya Kalash' during the festivals like Ganeshotsav and Durga Pooja and use it for vermicomposting.

### **Liquid Waste Management**

#### **Laboratory liquid waste management system through percolation system: -**

Two Soak Pits for groundwater recharge are constructed for non-hazardous liquid waste generated from labs. Chemistry laboratory have separate basin marked with hazardous chemical waste. In this liquid waste can be defined as wastewater of practical without chemical. This is the liquid used for washing purposes other than reaction. As this liquid is not hazardous to the environment, it can be percolate in the soil to avoid stagnant water and to facilitate ground water recharge. The hazardous liquid containing chemicals get transfer to Laboratory Hazardous Chemical waste disposal unit. This waste liquid of both laboratories is percolated into the soil through different water percolation systems. This percolation pit is also like rainwater harvesting system. The pit is filled with gravel/pebbles followed by river sand for better percolation.

## Hazardous Chemical Waste Management

We have planned to minimize the use of hazardous chemicals related experiments. Even though during the synthesis if some hazardous chemicals may be form, diluted chemicals are diluted before discarding in wash basin. The basin is Marked for the disposal hazardous chemical waste and all the chemical waste is collected in a separate tank set up outside the laboratory. The chemical effluent is further carried away by the Mandla Municipal Corporation.

## Water Management

The water for all other purposes is supplied through another set of distribution pipes. The ground water is pumped into the storage tanks/elevated service reservoirs located at different places in the campus. The water is distributed through a well-laid pipe network.

Entire distribution system is well supervised by the college administration to ensure that there are no leakages and wastages of water through Leakages in the pipelines and the water-taps etc. Regular cleaning of the water tanks is regulated by the administrative staff of the college. All the stakeholders of the college are well-educated to use water economically and efficiently.

Rainwater from the different college buildings is taken to the wells for ground-water recharge. A proper care is also taken to keep the Rooftops cleaned so that unnecessary garbage does not mix with the rainwater leading towards the well. The inlets of these tanks are controlled by the ball-valves to avoid water overflows.

Apart from carrying out Cleanliness Drives and Awareness Campaigns, the College NSS volunteers also build Earthen Nala Bunds (ENB) for ground water recharge in the adopted villages during the NSS Special Camps.

## E-waste Management

E-waste management by the Departments of Physics, Chemistry and Computer Science-Components and other small devices/parts of non-repairable equipment's are used to fabricate new experimental kits/power supplies. This is one of the best practices of the concerned departments.

The department has started reusing the electronic components from the discarded instruments, PCs, UPS, etc. such as transformers, transistors, ICs, Capacitors, Inductors, Resistors, Connectors, Sockets, Switches, Wires, LEDs and other electronic or electrical devices to fabricate the instruments and experimental kits that are used in the Physics Laboratory.

The students and faculty have also been involved in the maintenance and repairs of the instruments and experimental kits, which led to an increase in their life and the optimum uses. This has not only become a step towards the E-waste management but also cultivated innovative ideas among the students and the faculty. The students have also gained many skills through these activities.

## Display Boards to Promote Environmental Sensibility on College Campus

Various boards including Quotes that promote environmental awareness and ethics including air-pollution control, plastic-free campus, conservation of energy, recycling of resources, tree plantation, Nature conservation, etc. are displayed for all the stakeholders of the college.

## Installation of Incinerator in the Girls' Common Room

The college has installed an Incinerator for the disposal of sanitary pads in the Girls' Common Room as a step towards eco-friendly disposal mechanisms.

## Observance of Days to Protect and Nurture Environment

The organization of various events like Rallies, Awareness Campaigns, Cleanliness Drives, Seminars, Conferences, Workshops, presentations, Tree Plantation Drives, Wildlife Photography Competitions, Rangoli Competitions, Essay Competitions, Bird Watching Programs, Excursions, Study Tours, Guest Lectures, Talks, etc. on the occasion of various days like- 'International Day for the Preservation of the Ozone Layer' (16<sup>th</sup> September), 'World Environment Day' (5<sup>th</sup> June), 'International Tiger Day' (29<sup>th</sup> July), 'Wildlife Week' (2<sup>nd</sup> to 8<sup>th</sup> October), 'World Biodiversity Day' (22<sup>nd</sup> May), 'World Wetland Day' (2<sup>nd</sup>

February), 'World Water Day' (22<sup>nd</sup> March), 'World Sparrow Day' (20<sup>th</sup> March), 'Great Backyard Bird Count (GBBC)' (14<sup>th</sup> February), Mahatma Gandhi Jayanti (2<sup>nd</sup> October), 'Army Day' (15<sup>th</sup> January) 'Bird Week' in first week of November, etc. ensures to create awareness among young students and public about various environment related problems and conservation of Nature and natural resources in the surrounding area and educating on how to live a Eco- friendly life.

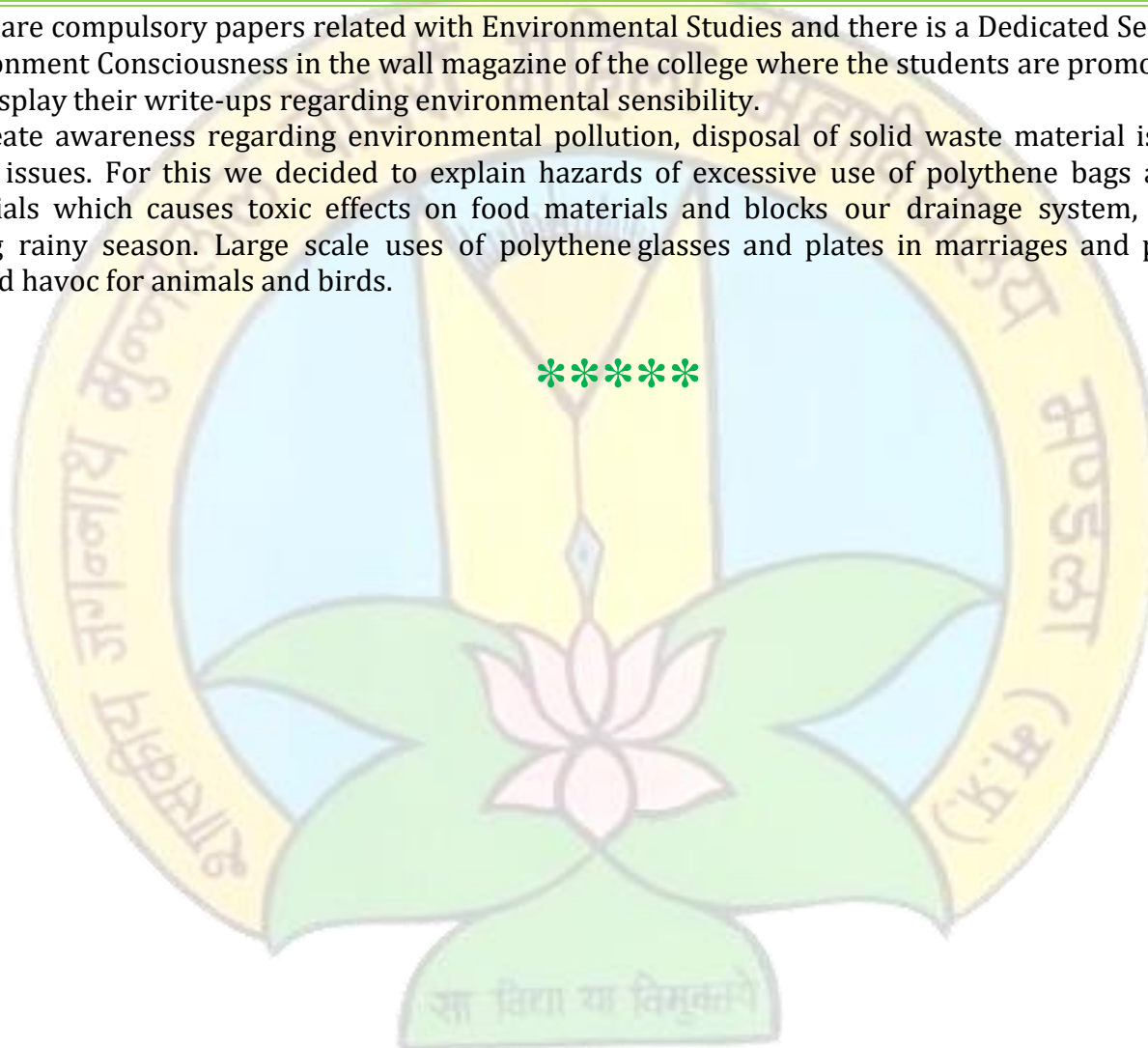
### The Energy Audit:

The Energy Audit of the college is done by Madhya Pradesh Urja Vikas Nigam Limited (MPUVNL) Government of Madhya Pradesh. The initiative regarding this is taken by the Department of Environment Science of the college.

### Dedicated Section for the Environment Consciousness in a creative Wall Magazine

There are compulsory papers related with Environmental Studies and there is a Dedicated Section for the Environment Consciousness in the wall magazine of the college where the students are promoted to write and display their write-ups regarding environmental sensibility.

To create awareness regarding environmental pollution, disposal of solid waste material is one of the major issues. For this we decided to explain hazards of excessive use of polythene bags and packing materials which causes toxic effects on food materials and blocks our drainage system, particularly during rainy season. Large scale uses of polythene glasses and plates in marriages and parties have created havoc for animals and birds.



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