

Government General Degree College, Mangalkote
[Affiliated to The University of Burdwan]

Green Campus Policy



**Proposed
By**

**Environmental Awareness Committee
In Collaboration
With
IQAC, GGDC Mangalkote**

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Introduction:

Sustainability in environmental, social, cultural, economic criteria are an important framework to achieve. The concept of sustainability received worldwide attention at the United Nations Conference on the Human Environment, Stockholm, 1972. The World Conservation Strategy 1980 by the IUCN (International Union for Conservation of Nature and Natural Resources), UNEP (United Nations Environment Programme) and WWF (the World Wildlife Fund), since beginning has helped to advance the achievement of sustainable development by conservation of natural resources. Thus, by establishing a strict green policy in compliance with the National Environment Policy, Government General Degree College, Mangalkote is dedicated to protect and preserve the environment. In order to achieve this aim for both the present and future generations, GGDCM constantly works to maintain an eco-friendly & green campus, instil the concept of sustainable development in the minds of youth, and train them in the management of renewable and non-renewable resources and waste.

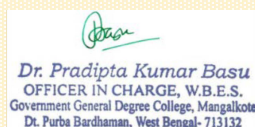
GGDCM Environmental Awareness Group:

The Environmental Awareness Committee Group was established at the behest of the Principal, with the aim of “Taking little steps towards a sustainable world” from Environmental degradation. GGDCM Environmental Awareness Group addresses this global need as an unparalleled hub of addressing environmental issues through innovation and education. This group has emerged to reduce the carbon footprints in GGDCM with its dedication and planning in every sector.

Vision:

GGDCM Vision is 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 Eco-friendly. Environmental Awareness Committee and NSS are jointly taking initiatives in this regard.

Mission:



- ◆ To bring awareness among the students about the hazards spoiling the environment
- ◆ To help the students understand each individual's responsibility to take an initiative to save the environment.
- ◆ To educate students to create awareness among public.
- ◆ To make students understand the importance of environment and its problem areas.


Objectives of the Policy:

- ❖ To protect and conserve ecological systems and resources within the campus.
- ❖ To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- ❖ To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
- ❖ To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
- ❖ To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- ❖ To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- ❖ To make the campus plastic free.
- ❖ To conduct environmental and energy audits from time to time.
- ❖ To minimize the use of paper in administration through having policy for E-governance.

Green Environmental Policy of The College:

GGDCM protects its own environment with its green campus initiatives and maintains a pollution free green and clean campus. Environmental development based educational policies are implemented on the campus. The Institution is committed to manage its campus in accordance with the responsibilities towards promoting sustainable environment. These responsibilities are base on the following areas:

- **Clean and Green Campus Management**
- **Solid Waste Management**
- **Liquid Waste Management**
- **E -Waste Management**
- **Chemical Waste Management**
- **Water Conservation and Management**
- **Paperless operating procedure**
- **Agro-Forestry**
- **Roof Gardening Initiative**
- **Energy Use and Conservation**
- **Noise Pollution Management**
- **Air Pollution Management**
- **Ban on Single-use Plastics on the Campus**
- **Display Boards on College Campus**
- **Green Audit**


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1. Clean and Green Campus Management

Inside the college campus there is a well-maintained landscape garden (about 1 acre) comprising numerous small trees, shrubs and several ornamental and decorative plants. College has also nurtured two (02) pockets of Herbal/Medicinal Garden with various regional as well as non-regional medicinal plants. The college also maintains Vegetable Garden without using any pesticides & chemical fertilizer but only with organic manure.

NSS members of GGDCM maintained a fruit garden at one of the corners of the garden. NSS volunteers maintain the garden. They actively and timely water and prune whenever required. NSS volunteers of the college clean the college campus at a certain interval as a part of their Regular activities with the help of college's deployed one temporary staff. College celebrates a compulsory "Campus Cleaning Day", on the day before the celebration of "World Environment Day" Activities under 'Swachh Bharat Abhiyan' are conducted by NSS volunteers of the college along with members of Environmental Awareness Committee.

The diverse green cover of GGDC Mangalkote is also home to a number of animals and rare birds across at least 20 species, creating a campus rich in biodiversity. The college commits to enriching this healthy habitat and maintaining the symbiotic relation of the institution with nature by

- Organizing annual tree plantation drives
- Encouraging students to hold tree planting events

2. Solid Waste Management

With its aim to provide holistic education that also has a positive impact of the environment, the college will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

- ❖ Systematically engage with the 3Rs of environment friendliness (Reduce, Reuse and Recycle).
- ❖ Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- ❖ Reduce solid waste by developing a technology-centric teaching and administrative model.
- ❖ Reduce use of paper by supporting digitization of attendance and internal assessment records.
- ❖ Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
- ❖ Take initiatives to spread awareness amongst students about Food wastage and ways of minimizing it. They are also advised to minimize the use of packaged food.

3. Liquid Waste Management:

Next to air, water is the most important element for the preservation of life. Water is a finite commodity which, if not managed properly, will result in shortages in the near future. Water conservation can go a long way to help alleviate these impending shortages. Thus the following policies are taken in the campus:

- Maintain leak proof water fixtures.
- Minimize the use of water by constructing more Indian style toilets instead of western style toilets.
- Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc.
- Reuse of wastewater generated by the Reverse Osmosis (RO) system in washrooms, gardening and washing vehicles.

4. E -Waste Management:

The College is grappling with ways to efficiently and cost-effectively handle the issue of electronic waste, or e-waste, on campus. It's normal for people to discard of products due to normal wear and tear, but technological advancements have accelerated e-waste growth as students, faculty and administrators frequently upgrade to better gadgets. This surge has forced college administrators to carefully examine and address the environmentally responsible disposal of these products on a campus-wide scale. Obsolete workable computers, printers and other equipment discarded by departments are being stored in a separate place to sold as scrap. The cartridges of printers are refilled outside the college campus. UPS Batteries are recharged and repaired by the suppliers.

5. Chemical Waste Management:

Department of Chemistry is taking initiative for managing chemical wastes from the Chemistry, Botany and Zoology laboratories. The potential hazards related to a chemical waste are first identified, collect methodically in labeled containers and then disposed of properly. Uses of solvents are made minimal to avoid generation of liquid chemical waste. Halogenated and non-halogenated solvent wastes are stored separately and made given into waste segregation. Prior to disposal of acidic and alkaline waste solutions they are being neutralized using lime and sodium-bicarbonate.

6. Water Conservation and Management:


GGDC Mangalkote has committed itself to the effort to replenish the groundwater table by practicing rainwater harvesting. The rainwater is now collected by Department of chemistry in the open plastic tanks in the roof and those water after filtration is used as distilled water in practical purposes. GGDC Mangalkote is also acting now to develop a rain water harvesting pit in the college. Waste water from RO is also collected and reused in gardening or vehicle washing.

7. Paperless operating procedure:

GGDC Mangalkote is striving towards a paperless office, a work environment in which the use of paper is eliminated or greatly reduced. This is done by converting documents and other papers into digital form, a process called digitization. We believe that "**Going Paperless**" can save money, boost productivity, save space, make documentation and information sharing easier, keep personal information more secure, and protect the environment from global warming. Several initiatives are taken to minimize the usage of paper. Wherever possible automation and digitization are introduced which helped in minimization of usage of paper. Digital storage of documents is one such measure. Institutional data to a great extent is stored digitally. Technology is used to a greater extent for communication among the staff and the students rather than paper communication. What's app - class wise groups, Department wise groups, Committee wise group facilitate E-communication and use of public address systems reduces usage of paper in notices and circulars. In addition to going paperless in the classroom, the college has also introduced "Learning Management System" wherein references, notes, syllabus question banks, study material is stored and shared on the e-platform, avoiding massive usage of paper. The teachers have also experimented with alternatives of paper -based testing with e-assignments and other skill - based tests like presentations, group discussions etc.

8. Agro-Forestry:

Agro-forestry is an important area to reduce human impact on land and contributes to a green economy by promoting sustainable and renewable forest management. It aims to achieve more socio-ecological benefits than the conventional cultivation system. To encourage and support agro-forestry, the college has implant different plants of various importance in its campus. The college also adapts a plantation drive spreading over an area of 1acre in the campus having various endemic plants with medicinal value.


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9. Roof Gardening Initiative:

The college is planning to develop roof garden. With rooftop gardens come another environmentally friendly and booming initiative – "urban agriculture." This involves using green roofs as miniature farms that actually produce fresh food. Other than the different types of bushes, trees, plants, and invertebrates rooftop gardens can harvest, they can also be a perfect habitat for many birds, and act as a stopover for migrating species, allowing two different type of these to come into contact. In addition, because of the decreased pollution levels and the increase in water and air quality provided by rooftops, demands for health care and stress could be reduced.

10. Energy Use and Conservation

Energy management is the translation of conservation ideas into realities, by lending technically feasible solutions with economic and other organizational considerations within a specified time frame.

- ◆ To provide a " bench-mark" (Reference point) for managing energy in the organization and also provides the basis for planning a more effective use of energy throughout the premises.
- ◆ To reduce the amount of energy input into the system without negatively affecting the output.
- ◆ To identify potential energy efficiency improvement measures and are applied independently.
- ◆ To minimize energy costs / waste without affecting production & quality.
- ◆ To minimize environmental effects.

The college is committed to use energy in an efficient way. Solar energy is used in the campus. Solar panels are installed to get solar light. LED bulbs are used in the classrooms and offices to ensure low consumption of energy. Power management features are activated when electronic devices (printers, computer, monitors etc.) are not in use to avoid energy consumption.

All classrooms are well fitted with 04 to 08 large windows and there by ensure cross-ventilation to make these rooms airy and sunny and resultants of which to minimization of electricity consumption.

The college has has filed an application to PWD for installing a Solar panel with the patronage of the Government on the rooftop of the main building to minimize consumption of normal electricity and less dependence on colloquial electric system.

11. Noise Pollution Management:

- Various display boards have been placed in the library and other places for awareness to maintain silence in the college.
- The security guards of the college ensure smooth entry and exit of students without any noise.
- Our staff members and students are asked to refrain from pressure horns.

12. Air Pollution Management:

A) **Periodic Awareness Programme for Staff, Students and Society:** The College conducts awareness programmes for staff, students and society for protecting and maintaining environment. Environment awareness programmes, rallies, etc. are conducted on various issues related to environment and health.

B) **Establishment of Oxygen Park, plantation of oxygen rich plants:** The College has a beautiful green campus. A range of medicinal plants and old trees like Neem Trees and Tulsi make the campus Oxygen Park.

C) **“No Smoking, No Tobacco” in campus area:** Tobacco and tobacco products are strictly prohibited in the college premises and consuming Tobacco and tobacco products is a punishable offence. The instructions regarding this are given to the students and the staff members. The boards are displayed at various places in the college.

D) **“No Vehicle Day”** is celebrated once in a month. On that day petrol, Diessel and CNG cars are not allowed to enter in the college premises.

13. Ban on Single-use Plastics on the Campus:

GGDC Mangalkote has been taking initiatives towards a cleaner and plastic-free campus. Following the MHRD and UGC guidelines, our institute has issued a notification to Students and all Stakeholders that there would be a ban implemented on the use of single use plastics on the campus. The institution through its Environmental Awareness Cell and NSS Unit conducts sensitization programs on the harmful impact of single-use plastics and mandates all the students to avoid bringing non-bio-degradable plastic items to the institution, which include plastic bags, cups, plates, small drinking water bottles, straws and sachets. The institution facilitates environment friendly substitutes like stainless steel, washable and reusable tumblers at all water units and mandates the canteen to serve only in paper plates and paper cups to systematically ban the use of plastics on the campus. The GGDCM Environmental Awareness Cell also encourages the students to sensitize their respective households about the harmful effects of plastics and reduce their use of plastics in daily life as much as possible.

14. Display Boards on College Campus:

Various boards that promote environmental awareness and ethics such as noise control, tobacco free campus, conservation of energy, recycling of resources, tree plantation etc are displayed for all the stakeholders of the institute.

15. Green, Environmental and Energy Audit:

The Green, Environmental and Energy Audit to be conducted as and when required to further reduce its carbon footprint. The importance of reducing energy consumption cannot be overstated. The energy audit, with its specialized tools will identify wastage of energy. Such an inspection often reveals several different flaws which cause a loss of significant amounts of energy which the college will not be able to detect. These flaws often have easy and affordable solutions and provide significant savings.

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