



GOVERNMENT OF WEST BENGAL

Office of the Principal

SHAHID MATANGINI HAZRA GOVT. GENERAL DEGREE COLLEGE FOR WOMEN

Chaksrikrishnapur-Kulberia :: Kulberia :: Purba Medinipur 721649



matanginicollege@gmail.com/ principal@matanginicollege.ac.in 03228-262261/262262 www.matanginicollege.ac.in

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.3 Policy document on environment and energy usage Certificate from the auditing agency.

LINKS FOR RELEVANT DOCUMENTS

No	Description of the documents
1.	Photographs of Green Campus Policy
2.	Sample Photograph of Self-Assessed Green and Energy Audit - related part
3.	Sample Photographs of Notice / Circulars

Principal
Shahid Matangini Hazra Government
General Degree College for Women
Chaksrikrishnapur, Kulberia, Nimtouri
Tamluk, Purba Medinipur

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Shahid Matangini Hazra Govt.
General Degree College for Women,



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Self Assessed Green and Environmental Audit



GREEN CAMPUS

Policy Document



**Shahid Matangini Hazra Government General
Degree College For Women**

Government of West Bengal

Affiliated to Vidyasagar University

Chakshrikrishnapur, Kulberia, P.O: Kulberia, Dist: Purba Medinipur, PIN: 721649

Principal

Shahid Matangini Hazra Government
General Degree College for Women
Chakshrikrishnapur, Kulberia, Amtouri
Tamluk, Purba Medinipur



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Self Assessed Green and Environmental Audit

Students' Grievance Redressal Committee (SGRC)
Shahid Matangini Hazra Government General Degree College For Women

POLICY DOCUMENT ON THE GREEN CAMPUS

Shahid Matangini Hazra Government General Degree College for Women

Introduction:

Shahid Matangini Hazra Government General Degree College for Women is committed to promote environmental sustainability and responsible energy usage in all aspects of its operations. **This policy outlines our commitment to reduce our environmental footprint, ensuring a plastic free environment, conserving natural resources, and fostering a culture of sustainability on our campus.**

Policy Statement:

Environmental Responsibility: Shahid Matangini Hazra Government General Degree College for Women recognizes its responsibility to protect and conserve the environment. We are committed to minimizing the adverse environmental impact of our operations and activities.

Energy Efficiency: Energy efficiency will be ensured in all college buildings and facilities by implementing energy-efficient technologies and practices such as use of more LED lamps etc. Regular energy audits and assessments will be conducted to identify opportunities for reducing energy consumption.

Renewable Energy: The opportunities to increase the use of renewable energy sources on campus will be explored, such as installation of solar panels to reduce our reliance on fossil fuels.

Waste Management: The College will implement waste reduction to minimize landfill waste and effective use of bio-waste and encourage responsible disposal of materials.

Water Conservation: Water conservation will be encouraged through practices on campus, including the, rainwater harvesting.

Education and Awareness: Shahid Matangini Hazra Government General Degree College will educate and raise awareness among its students, faculty, and staff about environmental issues, sustainability, and responsible energy usage. Sustainability-related courses, workshops, and events will be offered to the campus community.

Maintenance of the Greenery: The college will see to the maintenance of the greenery and natural ambience for its sustenance, nevertheless it will give a pleasurable experience to spend long hours inside the campus.

Compliance:

We will comply with all relevant environmental laws, regulations, and standards. The college will also work towards obtaining environmental certifications and awards.

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Roles and Responsibilities:

College Administration: The college administration will submit recommendation to the appropriate authorities to facilitate necessary resources and support for the implementation of this policy.

Green and Environmental Audit Committee: A dedicated committee will be formed comprising of the internal members of the college to oversee the college environmental and energy initiatives; set goals, and monitor the progress.

Faculty and Staff: Faculties and staff members are expected to support and participate in sustainability efforts and energy-saving measures.

Students: Students are encouraged to engage in sustainability activities and provide input on environmental initiatives.

Review and Reporting:

The Green and Environmental Audit Committee will prepare an annual report on the progress and outcomes of the environmental and energy initiatives at Shahid Matangini Hazra Government General Degree College for Women. The report will be made available to all stakeholders and will serve as a basis for continuous improvement and further sustainability efforts.

Conclusion:

Shahid Matangini Hazra Government General Degree College for Women is committed to being a responsible steward of the environment and promoting sustainable practices in all aspects of its operations. Through the collective efforts of our college community, we aim to reduce our environmental impact and contribute positively to a more sustainable future.

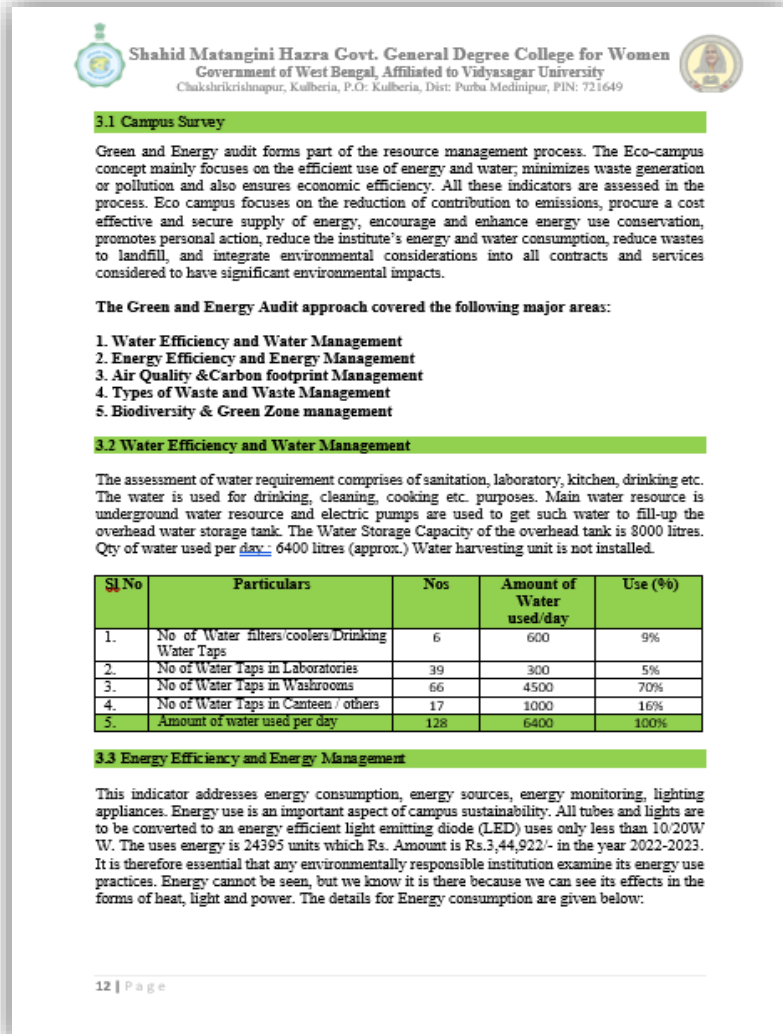
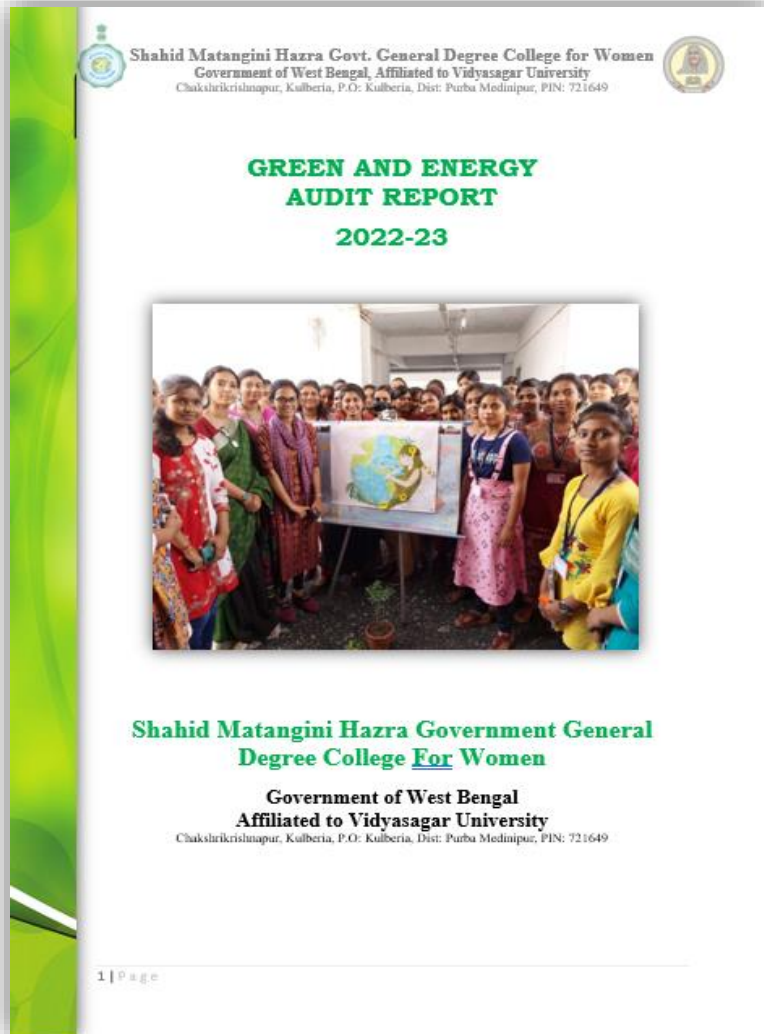
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Shahid Matangini Hazra Government
General Degree College for Women
Chakshrikrishnapur, Kulberia, Nimitouri
Tamluk, Purba Medinipur

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Shahid Matangini Hazra Govt.
General Degree College for Women
Chakshrikrishnapur, Kulberia, P.O: Kulberia,
Dist: Purba Medinipur, PIN: 721649

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Sample Photograph of Self-Assessed Green and Energy Audit - related part



3.1 Campus Survey

Green and Energy audit forms part of the resource management process. The Eco-campus concept mainly focuses on the efficient use of energy and water, minimizes waste generation or pollution and also ensures economic efficiency. All these indicators are assessed in the process. Eco campus focuses on the reduction of contribution to emissions, procure a cost effective and secure supply of energy, encourage and enhance energy use conservation, promotes personal action, reduce the institute's energy and water consumption, reduce wastes to landfill, and integrate environmental considerations into all contracts and services considered to have significant environmental impacts.

The Green and Energy Audit approach covered the following major areas:

1. Water Efficiency and Water Management
2. Energy Efficiency and Energy Management
3. Air Quality & Carbon footprint Management
4. Types of Waste and Waste Management
5. Biodiversity & Green Zone management

3.2 Water Efficiency and Water Management

The assessment of water requirement comprises of sanitation, laboratory, kitchen, drinking etc. The water is used for drinking, cleaning, cooking etc. purposes. Main water resource is underground water resource and electric pumps are used to get such water to fill-up the overhead water storage tank. The Water Storage Capacity of the overhead tank is 8000 litres. Qty of water used per day: 6400 litres (approx.) Water harvesting unit is not installed.

Sl.No	Particulars	Nos	Amount of Water used/day	Use (%)
1.	No of Water filters/coolers/Drinking Water Taps	6	600	9%
2.	No of Water Taps in Laboratories	39	300	5%
3.	No of Water Taps in Washrooms	66	4500	70%
4.	No of Water Taps in Canteen / others	17	1000	16%
5.	Amount of water used per day	128	6400	100%

3.3 Energy Efficiency and Energy Management

This indicator addresses energy consumption, energy sources, energy monitoring, lighting appliances. Energy use is an important aspect of campus sustainability. All tubes and lights are to be converted to an energy efficient light emitting diode (LED) uses only less than 10/20W W. The uses energy is 24395 units which Rs. Amount is Rs.3,44,922/- in the year 2022-2023. It is therefore essential that any environmentally responsible institution examine its energy use practices. Energy cannot be seen, but we know it is there because we can see its effects in the forms of heat, light and power. The details for Energy consumption are given below:

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Sample Photograph of Self-Assessed Green and Energy Audit - related part



Periodic Energy Consumption Table:

Sl No	Particulars	KWH	Amount
1.	July 2022	2444	31551
2.	August 2022	2337	30705
3.	September 2022	2406	31852
4.	October 2022	2894	34195
5.	November 2022	1910	28004
6.	December 2022	2182	29974
7.	January 2023	1914	28855
8.	February 2023	1630	26653
9.	March 2023	1462	25405
10.	April 2023	1887	23386
11.	May 2023	1577	26216
12.	June 2023	1752	28126
Total for the Year		24395	344922
Total Strength of the College 1054		23.15 kWh/person/year	

* Demand Charge included Rs.15300/- every month and Annual Demand Charge arrives Rs.1,83,600/- which is 53% of the total amount paid.

Shahid Matangini Hazra Government General Degree College for Women falls in Warm & Humid Climate Zone. In a warm and humid climate zone, energy consumption is often higher due to the need for cooling systems to maintain comfort levels. This makes it particularly important for institutions to implement energy-efficient practices and technologies to minimize environmental impact and operational costs. The Energy Performance Index (EPI) measured from the above table as 23.15 kWh/person/year.

Major consumptions of electricity are from the following devices/equipment:

Sl No	Particulars
01.	Fans
02.	Lights
03.	Computer and Peripherals
04.	Laboratories
05.	Electric Pump Set and Other Devices

Other Observations:

- All the corridors receive moderate daylight
- Corridors are wide with good ceiling height.
- Classrooms also have high ceilings with wide doors and windows.
- Windows are kept open to receive natural light.
- Due to the location some classrooms do not receive ample natural light and fresh air.
- All rooms are provided with tube lights and fans.
- Computers are always kept on standby mode with power saving screensavers. There are signages encouraging users to switch off light and fans to save electricity.
- Providing signage through screensavers & posters near electrical switches help in making students responsible for conservation of electricity.



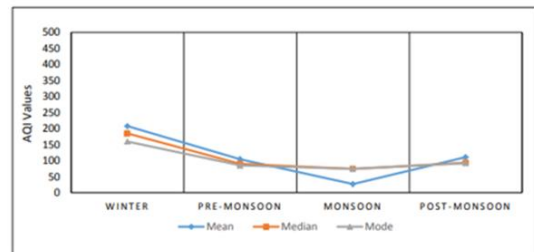
3.4 Air Quality & Carbon footprint Management

- Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing wherein equipment with star rating; those using eco-friendly materials; those with safe disposal policy or return to supplier after the end of life, can be considered.
- For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.
- Notices/ signage can be put up/ displayed near switches and on notice boards, informing students and staff to switch off all electrical gadgets of all Departments & Sectors when not in use.
- Use of large number of percentage renewable energy should be considered.

Commutation of stakeholders has an impact on the environment through the emission of greenhouse gases into the atmosphere consequent to burning of fossil fuels (such as Petrol, Diesel, LPG Gas). The most common greenhouse gases are carbon dioxide, CFC, water vapour, methane, nitrous oxide and ozone. It was observed that the Outdoor air quality is moderately fresh for breathing. A comprehensive study has been conducted by the Dept. of Geography and Dept. of Geology of the College involving students.



Figure 3: Statistical parameters showing the seasonal variation of AQI during the year 2023 at the SMHGGDCW monitoring station



B. S. Prasad
Principal
Shahid Matangini Hazra Government
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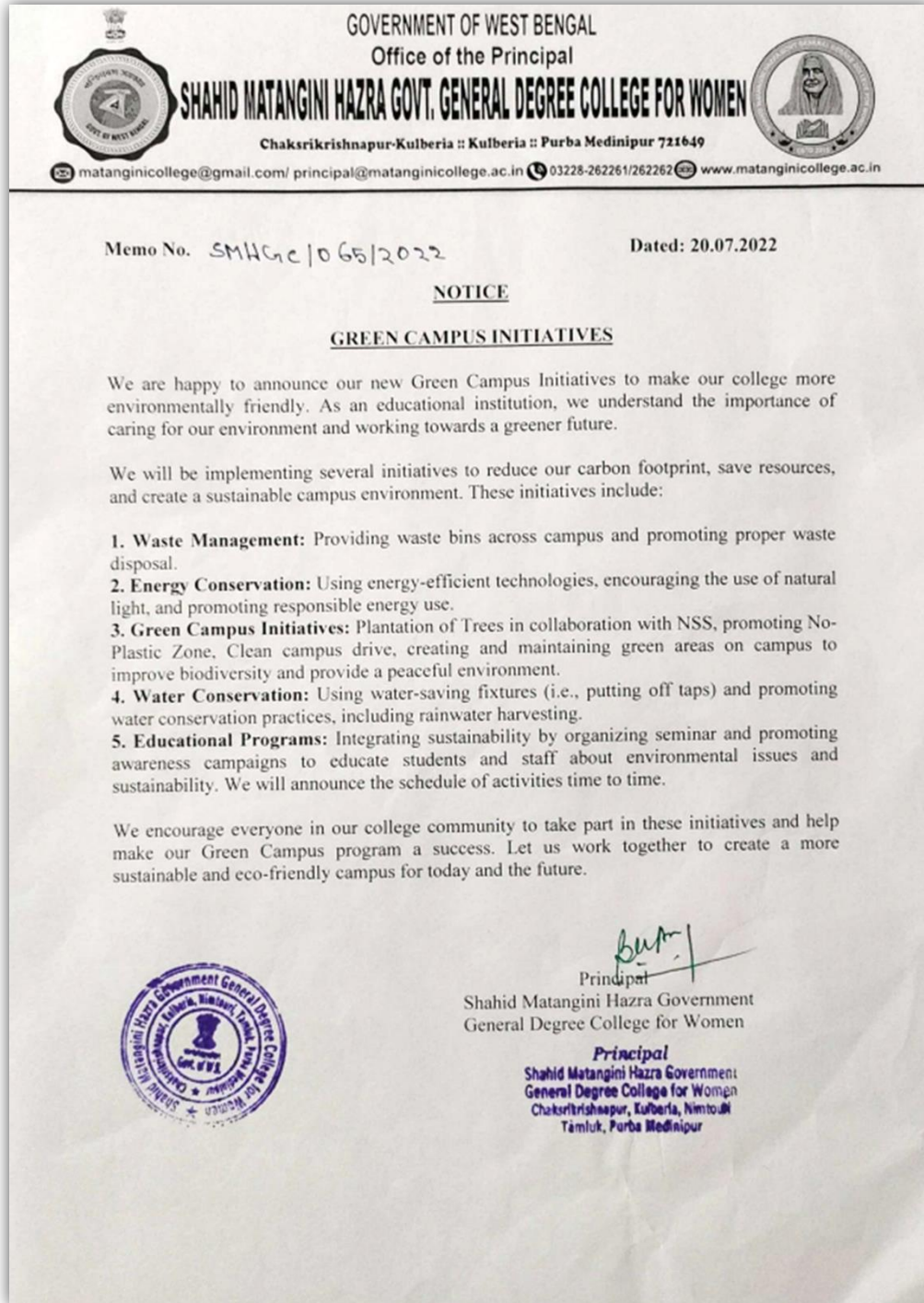
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Sample Photographs of Notice / Circulars



Memo No. SMHGC/065/2022

Dated: 20.07.2022

NOTICE

GREEN CAMPUS INITIATIVES

We are happy to announce our new Green Campus Initiatives to make our college more environmentally friendly. As an educational institution, we understand the importance of caring for our environment and working towards a greener future.

We will be implementing several initiatives to reduce our carbon footprint, save resources, and create a sustainable campus environment. These initiatives include:

- 1. Waste Management:** Providing waste bins across campus and promoting proper waste disposal.
- 2. Energy Conservation:** Using energy-efficient technologies, encouraging the use of natural light, and promoting responsible energy use.
- 3. Green Campus Initiatives:** Plantation of Trees in collaboration with NSS, promoting No-Plastic Zone, Clean campus drive, creating and maintaining green areas on campus to improve biodiversity and provide a peaceful environment.
- 4. Water Conservation:** Using water-saving fixtures (i.e., putting off taps) and promoting water conservation practices, including rainwater harvesting.
- 5. Educational Programs:** Integrating sustainability by organizing seminar and promoting awareness campaigns to educate students and staff about environmental issues and sustainability. We will announce the schedule of activities time to time.

We encourage everyone in our college community to take part in these initiatives and help make our Green Campus program a success. Let us work together to create a more sustainable and eco-friendly campus for today and the future.



[Handwritten Signature]
Principal

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General Degree College for Women
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Tamluk, Purba Medinipur