



# B.T. Institute of Excellence

(Approved by Higher Education, Govt. of M.P. and NCTE, New Delhi)

Affiliated to Dr. Harisingh Gour Vishwavidyalaya, Sagar  
Mob. No.: 9926459169, 8435208060, 9179071001

www.btie.in / e-mail : btiesagar@rediffmail.com

Run by : Little Star Education Society

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## Foreword

The college Development Committee of BTIE adopts measures to initiate, implement, promote and practically lead environmentally sustainable practices in our college campus. It aims to effectively decrease the detrimental effects and limit the negative impact of all college campus activities on our environment's health.

This document aims a behavioural change in the approach to environmentally sustainable practices while inculcating the habit of environmentally responsible praxis in everyone who is a part of BTIE College. It also aims to instil in the staff and students of the college a passion to work towards contributing positively in building our environment's health.

## Part A: Objectives, Goals And Criteria

### Objectives and Scope

The main objectives of the Environment Policy Guidelines are:

1. Make the campus as well as the activities in college environmentally sustainable.
2. Be eco-friendly and safe while not compromising on the essence and experience of student and academic life.
3. Create green events and inculcate a more aware and sustainable attitude among the students.

Keeping these main objectives, the following sub-objectives will serve as guidelines to initiate the process of making the campus greener and sustainable:

1. Introduce a uniform waste management system which incorporates:
  - a. To plan to reduce the amount of waste generated.
  - b. To plan to reduce generating waste that reaches the landfills.
  - c. To plan segregation process so as to reach wastes to recyclers.
2. To make the energy consumption of college more efficient.
3. To ensure the hygiene and sanitation requirements in campus are maintained
4. To encourage awareness campaigns and promote greener attitudes through physical displays and educational curriculum.



The scope of these objectives extends to all festivals, events and conferences as well.

The initial implementation of the guidelines will be in restricted pace, owing to limited funds, logistical constraints and infrastructure limitations of college. It is proposed that every year initiatives be taken to expand the scope of these guidelines to include plans that implement carbon off-setting measures and water management and conservation.



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It is to be noted, that the guidelines proposed have taken care to retain the processes and conduct of events in a manner to preserve the sentimental and aesthetic value the workforce and participants associate with many of the popular flagship events; but we urge that in the future all unnecessary extra fat is trimmed off of these events or conducted in the spirit of sustainability. The college management will have to play a critical role in guiding the students to making college events greener. There shall be a separate policy made for these events.

The structure of these guidelines is on the basis of waste management, energy efficiency and some other general pointers to keep in mind.

BTIE hopes that in a few years this document will expand its scope and cover all possible areas to make the campus truly environmentally sustainable.

## Criteria for developing Environmentally Sustainable Culture on Campus

Process and steps to develop and implement a sustainable campus:

1. Efforts taken to reduce the energy consumption, and indirectly reduce the carbon footprint.
2. Efforts taken to reduce the consumption of water and other resources, as well as reducing the creation of waste.
3. Measures implemented to divert the created waste from the landfills to recyclers, and to reuse as much of it as possible.
4. Environmental and social impacts are duly considered when deciding all purchases, sponsors and vendors.
5. Create a system to continually report the progress towards these goals and to make improvements year on year.

## Part B: Guidelines

### Waste Management

Waste reduction strategies must be complemented with an effective waste management policy guideline. In this context, waste management refers to:

1. Mapping and segregation of waste
  - a. The system to ensure effective segregation, as well as its disposal, the waste generated is collected and disposed by Local Municipal Corporation.
  - b. Segregation of waste wherein waste will be divided into wet and dry waste. The necessity of segregation is to prevent contamination of recyclable dry waste by the wet waste. The segregation shall be on the lines of wet and dry only, and will not be based on biodegradable/non-biodegradable to prevent confusion.







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- i. Wet Waste includes all organic and food waste. It does not include paper plates and cups, contrary to popular belief.
    - ii. Dry Waste includes everything else, except e-waste if generated (whose creation and disposal shall be limited to a few specific areas). To ensure effective segregation, all leftover food and liquids shall be emptied into the wet-waste from the plates and cups (which shall be disposed in the dry waste).
  - c. Zero-waste policies should be made clear from the entrance itself.
  - d. The instructions about segregations and visible bins should be made prominent.
2. On ground branding of waste collection spots
  - a. The bins shall be placed prominently with bold colours and displays.
  - b. The placement of the dustbins shall be necessarily at eye level, via the use of poles or standees.
3. Physical placement design systems of waste collection bins
  - a. The positioning of bins and the waste disposal shall also be thought through to minimise work, and to prevent students from going out of the way to dispose waste properly, as it shall reduce effective segregation.
  - b. The bins will be placed according to the volume of the traffic as well as the estimated types of waste generated. Based on this the required number of bins, their placement and their signages can be arranged.
  - c. There should be effective communication and coordination to ensure that the bins are not full or overflowing, and that they are not displaced.
  - d. There should also be backup bins and the availability of people to move them in case the requirement arises.
  - e. The bins shall be lined with compostable bags if possible and their cleanliness is maintained. The cleanliness shall be handled by the college administration support staff.
4. E-waste bins

There should be a separate e-waste bin provided.
5. Food Waste management
  - a. All food waste generated will ideally be constrained to a few demarcated areas. This will make the collection and segregation process much simpler.
  - b. Post collection, all organic waste generated on campus will be treated in the compost pit of college. This compost will be used as manure for our college green cover and can also be sold to potential clients.





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## Waste Reduction and Efficiency

### 1. Paperwork transitions to digital methods.

A large portion of the waste generated is by the inefficient use of paper.

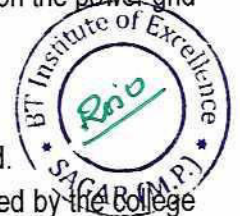
- To lessen the need for paperwork it is highly recommended that the general management of the college goes digital and as paperless as possible.
- For the bookings of classrooms and internal communications, the usage of letterheads must be cut down and a digital portal be utilized to manage it efficiently.
- The necessity of letterheads must be reduced, and communications carried out over email.
- There must be a streamlined system to manage bills and expense management as that is another massive drain on paper consumption, requiring one sheet per bill.
- These administrative side measures will have the effect of saving thousands of sheets of paper per year.
- There must be efforts taken to digitize the submission of assignments as well as the distribution of notes to the students.

### 2. Physical promotional and announcement-material restriction

- There shall be strict ban on all posters in classroom notice boards.
- Spaces such as the common events notice board outside lending library and more shall be utilised more effectively to maximise message reach to participants.
- There shall also be a strict ban on all paper streamers and unnecessary paper usage which serves no informational or promotional value.
- A similar ban will be enforced on stickers on the paper cups in the canteen.

## Energy Usage

- Schedule for repairs and maintenance: Maintenance of audio, video and other equipment should be mandated through bi-annual checks.
- Investments in Renewable energy: The efficient working of the solar cells is essential to an energy efficient campus and thus must be a priority of the college. If possible, the college's dependence on the power grid should be decreased by increasing the use of solar panels and regular maintenance.
- Inventory management:
  - A database of all the technological resources used/purchased needs to be created.
  - For the storage of this equipment, a system needs to be developed and maintained by the college administrator.







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- c. Purchasing the best and greenest possible resource for the campus and events (e.g. using LED bulbs instead of halogens despite the cost increase). As well as making sure to purchase energy efficient appliances. Depending on the scale of an event a part of the event budget should be allocated to buying green resources for the campus. The amount to be used for such purchases should be decided by event committees in consultation with the management.

## Water Management

1. Taking steps to creating a water-recycling system to reuse as much water as possible.
2. Encourage the reuse of kitchen water to water the plants.
3. Conduct regular checks for leaky faucets, flushes etc.

## Green Cover

1. Check the suitability of certain plants in the campus environment and plant species that are beneficial to the overall health of the campus.
2. Try to increase the green cover on campus by implementing innovative ideas such as hanging pots, less turf, etc.

## Documentation of the process

To maintain and improve on these systems every year, there is a necessity of comprehensive documentation. The XEC shall be responsible for the documentation along with necessary cooperation of the administration.

The documentation required shall be:

1. The infrastructural changes, if any, made to promote the sustainability of the campus.
2. The reasons for doing so, as well as the selection of the method of implementation.
3. Monitored changes, if any, of the environmental impact before and after the changes
4. Further maintenance procedures necessary and scope for improvements.



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## College Development Council-(2023-24)

	Name	Designation
Convener	Dr. Raju Tandan	Principal
Members	Dr. Kalpana Jain	Vice Principal
	Dr. Sanchita Jain	Assistant Professor
	Mr. Sabir Azad	Assistant Professor
	Dr. Ritu Jain	Assistant Professor
	Dr. Suresh kori	Assistant Professor

## College Development Council-(2022-23)

	Name	Designation
Convener	Dr. Raju Tandan	Principal
Members	Dr. Kalpana Jain	Vice Principal
	Ms. Deepti Patel	Assistant Professor
	Mr. Sabir Azad	Assistant Professor
	Ms. Anjali Dubey	Assistant Professor
	Dr. Suresh kori	Assistant Professor







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## NOTICE (Save Energy)

Dt. 12/09/2022

Dear Students and Faculty,

As part of our commitment to sustainability and reducing our carbon footprint, we encourage everyone to contribute to energy conservation efforts on campus. Small actions can make a big difference in preserving our environment and reducing costs. Here are some simple ways you can help:

1. **Turn Off Lights When Not in Use:** Remember to switch off lights in classrooms, offices, and common areas when leaving.
2. **Unplug Electronics:** Unplug chargers, laptops, and other electronics when they are fully charged or not in use.
3. **Use Energy-Efficient Appliances:** When possible, use energy-efficient appliances and equipment.
4. **Report Leaks and Issues:** Report any leaks, malfunctioning HVAC systems, or other energy-related issues promptly.
5. **Utilize Natural Light:** Open curtains and blinds to make use of natural daylight instead of artificial lighting.
6. **Optimize Heating and Cooling:** Set thermostats to recommended temperatures and avoid overheating or overcooling spaces.
7. **Promote Awareness:** Spread the word about energy conservation practices among your peers and colleagues.

By working together, we can create a more sustainable campus environment for current and future generations. Thank you for your cooperation in making our college a greener place!

Sincerely,

[BTIE, Sagar]



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## NOTICE (Saving Energy at Our College)

Dt. 07/07/2023

Dear Students and Faculty,

Let's work together to save energy on campus:

- Turn off lights in empty rooms and offices.
- To install LED bulbs in the complete campus to save energy.
- Unplug chargers and electronics when not in use.
- Use natural light and ventilation whenever possible.

Your actions make a difference! Thank you for helping us build a more sustainable college community.

[BTIE, Sagar]







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## Discussion and Decision on Energy and Environmental Green Policy

Dear Faculty and Students,

We invite you to participate in a discussion regarding the establishment of an Energy and Environmental Green Policy for our college. This policy aims to outline our commitment to sustainability and guide our actions in reducing our environmental impact.

### Discussion Points:

1. **Goals and Objectives:** What should be the primary goals of our energy and environmental policy?
2. **Strategies and Actions:** What specific actions can we take to reduce energy consumption and promote environmental sustainability on campus?
3. **Implementation Plan:** How can we effectively implement and monitor the policy to ensure its success?
4. **Education and Awareness:** How can we educate and engage the college community in supporting these initiatives?
5. **Resources and Support:** What resources and support are needed to achieve our goals?

### Decision Making:

- After thorough discussion, we will collectively decide on the key elements of the policy, including goals, strategies, and implementation steps.
- Your input and suggestions are crucial to shaping our college's commitment to sustainability.

Let's work together to create a greener and more sustainable future for our college and beyond.

Thank you for your participation.

Sincerely,

[BTIE, Sagar]





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## BTIE Initiative to implement alternative energy sources in daily routine

- installed photovoltaic solar panels for the generation of alternate energy.
- To maximise use of LED bulbs in the complete campus to save energy.
- Follows systematic waste management mechanism, separately for soiled and e-waste management.
- Implemented rain water harvesting unit.
- Conducted tree plantation drive and started organic farming and medicinal plantations
- To take additional measures to effectively utilise energy.

### Objectives:

1. **Mitigating Climate Change:** One of the primary goals is to reduce greenhouse gas emissions, which contribute to global warming and climate change. Policies often set targets for emission reductions and promote the use of renewable energy sources.
2. **Promoting Sustainability:** Encouraging sustainable practices in energy production, consumption, and waste management to conserve natural resources and ecosystems.
3. **Improving Air and Water Quality:** Implementing regulations to reduce pollution from industries, transportation, and agriculture, thereby enhancing public health and environmental quality.
4. **Enhancing Energy Security:** Diversifying energy sources to reduce dependence on fossil fuels, which can stabilize energy prices and improve national security.
5. **Fostering Innovation:** Stimulating research and development in green technologies, such as renewable energy, energy efficiency, and carbon capture and storage.

### Outcomes:

1. **Reduction in Greenhouse Gas Emissions:** Achieving lower emissions through renewable energy adoption, energy efficiency improvements, and stricter regulations on polluting industries.
2. **Energy Efficiency Gains:** Enhancing energy efficiency in buildings, transportation, and industrial processes to reduce overall energy consumption.







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3. **Increased Use of Renewable Energy:** Growing the share of renewable energy sources like solar, wind, hydroelectric, and geothermal power in the energy mix.
4. **Improved Public Health:** Lowering air and water pollution levels, leading to decreased incidences of respiratory illnesses and other pollution-related health issues.
5. **Economic Benefits:** Creating new job opportunities in green industries, reducing energy costs in the long term, and fostering economic growth through investments in sustainable technologies.
6. **Global Leadership and Cooperation:** Positioning countries as leaders in environmental stewardship, fostering international cooperation on climate action, and achieving global climate targets (e.g., under the Paris Agreement).

These objectives and outcomes collectively contribute to building a more sustainable and resilient future, addressing both environmental challenges and socio-economic benefits.





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 Lat 23.862401°  
 Long 78.80228°  
 26/06/24 05:45 PM GMT +05:30

GPS Map Camera

Rain Water Harvesting Unit in BTIE Campus







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**Install LED bulbs in the Class Rooms BTIE Campus**





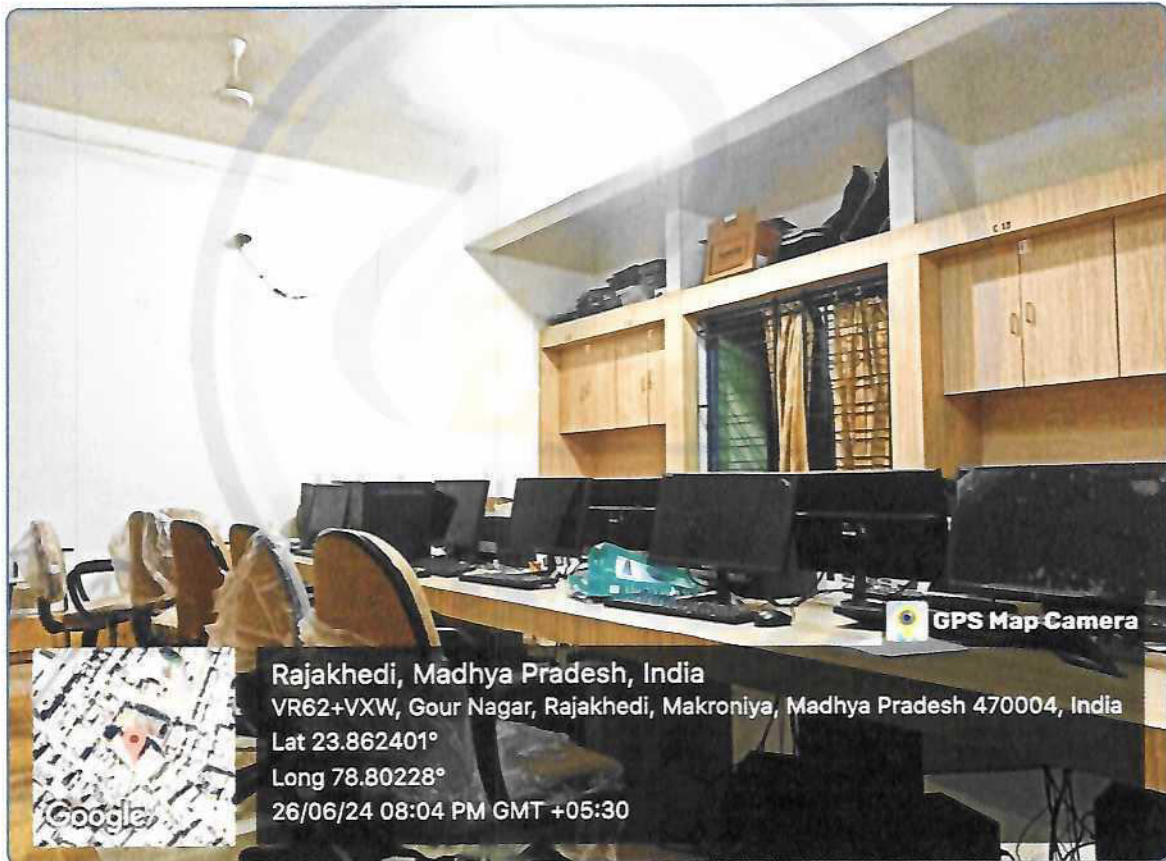
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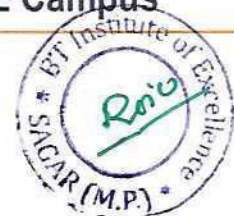
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**Install LED bulbs in the Computer Lab BTIE Campus**







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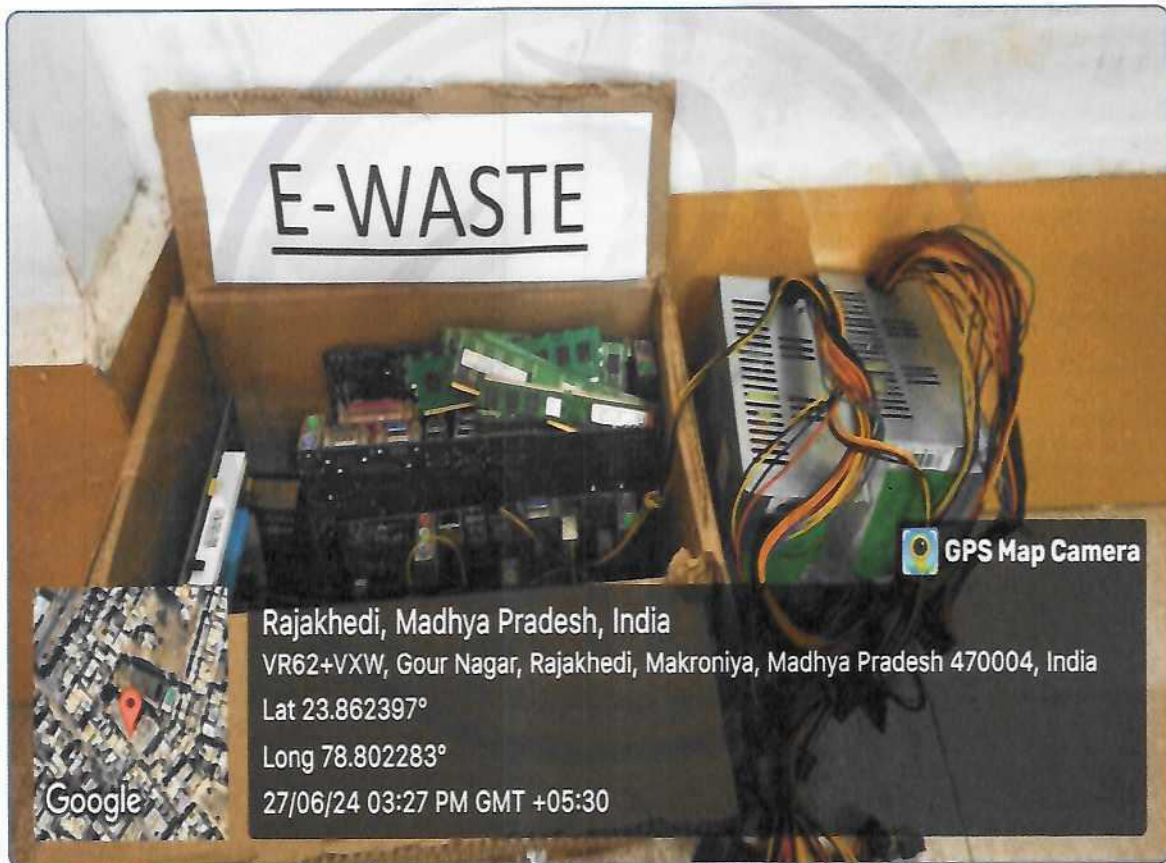
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**E- Waste**





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**Solar System in BTIE Campus**







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## Solar System in BTIE Campus

