



# গড়গাঁও মহাবিদ্যালয় GARGAON COLLEGE

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## MANAGEMENT OF DEGRADABLE AND NON DEGRADABLE WASTE





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## WASTE MANAGEMENT AT GARGAON COLLEGE

Gargaon College has taken several initiatives for management of degradable and non degradable waste and promote a sustainable and environmentally friendly campus.

Waste management refers to the creation and removal of several types of trash, including food, paper, plastic, glass, dust, building, and so on, in addition to recycling. Moreover, wasted material resources that may be better used through recycling, repair, and reuse are commonly found in solid waste. Solid waste generation and management are hot topics. The improper disposal of rubbish might put everyone in risk.

The Gargaon College fraternity is aware of the quantity, kind, and current management of trash generated on campus as well as appropriate disposal and reuse practices. Tree droppings on campus contribute significantly to the quantity of solid waste generated. On campus, there are leaf composting trenches where dry leaves may be turned into manure. In this sense, students are also encouraged to participate.



## SOLID WASTE MANAGEMENT

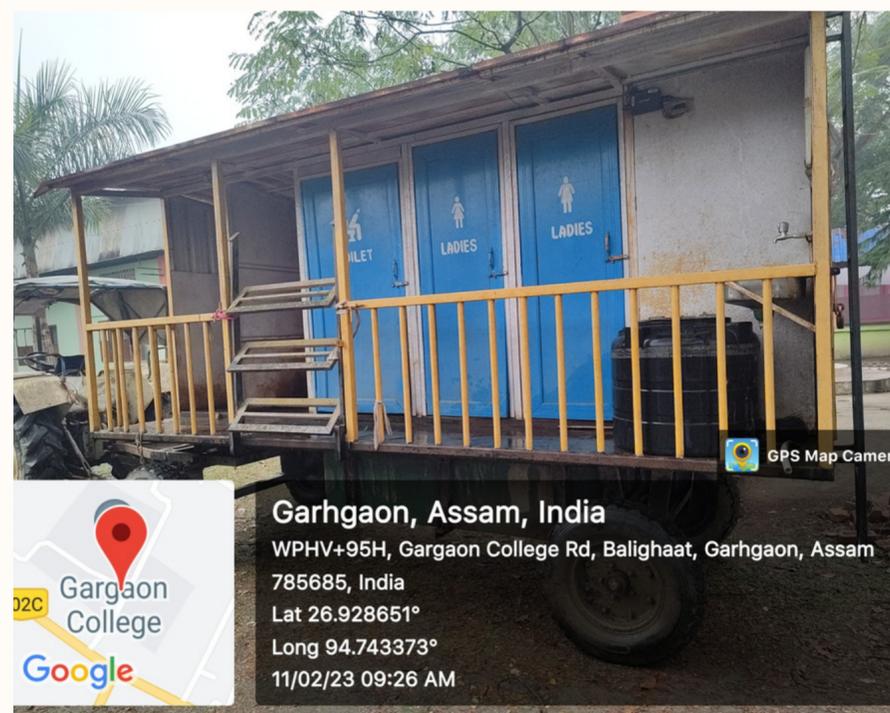
The purpose of this report is to assess and analyse the current state of solid waste management at Gargaon College. Solid waste management is a crucial aspect of environmental sustainability, and this report aims to identify areas core methods adopted for its effective management. At the time of collection, separate dustbins are provided for plastic and biodegradable waste. Old, single-sided papers are recycled for writing and printing in all sectors, and printing on both sides is encouraged. The remaining old newspapers are given to neighbourhood sellers, while old magazines are archived. A small number of old newspapers are kept for future study, issue analysis, etc. Very little plastic waste (0.1 kg per day) is produced in the department, office, garden, and other locations. It is neither recycled nor categorised at the time of creation. Trash made of metal and wood is collected and delivered to authorised scrap dealers for additional processing. The municipal collection facility is where current plastic garbage and e-waste are disposed of. Solid waste is collected by the municipal corporation, which then disposes of it in accordance with its policies.

Utilising all available municipal and private recycling resources, including glass, cans, white, coloured, and brown paper, plastic bottles, batteries, print cartridges, cardboard, and furniture, we want to lower the overall amount of trash produced by college staff offices. While organic trash (food waste) is turned into organic manure in vermi-composting machines, biodegradable waste (leaves and food waste) is composted in pits.



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The unrecyclable waste materials are disposed of in collaboration with the Nazira Municipal Board.





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### a) Waste segregation:

Waste segregation starts in the classroom. There are dust bins in every classroom and two dustbins in the common areas, one for biodegradable items and the other for non-biodegradable ones. In front of the classrooms, wet and dry trash cans are positioned in the hallways.





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## b) Production of Vermicompost





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### c) Campus Free of Plastic:

Gargaon College forbids the use of single-use plastics entirely and has severe policies on its use. One of the important mandates is raising awareness of the environment. It is accomplished by erecting notice boards and awareness campaigns. The college recently started the custom of depositing discarded water bottles in banks of plastic bottles. Students repurpose these bottles to create flowerpots, decor, and other useful products. Plastic bottles, bags are also reuse for seedlings, to fill vermicompost for sale etc.





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## Waste Recycling

Students repurpose plastic bottles, waste materials to create flowerpots, decor and other useful products.





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Reuse of plastic bottles, bags for seedlings,  
fill vermicompost etc.





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## Policy for ban on single use of plastic inside the Gargaon College campus



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Ref No: Date: 16/08/2022

### NOTICE

#### Policy for ban on single use of plastic inside the Gargaon college campus

As per the order from Ministry of Environment, Forest and Climate Change, implementation of Plastic Waste Management Rules, 2016 has been enforced in the college for the past five years.

The following rules need to be followed strictly inside the college campus-

1. Single use plastic items are banned inside the college premises.
2. Complete ban on use of plastic carry bags inside the college campus.
3. Banners, buntins, cups, cling films, flex, flags, and plates including the above items made of thermocol and plastic which use plastic micro beads are banned.
4. Students and faculty members are encouraged to bring their own water bottles to discourage the use of plastic bottles.
5. Canteen staffs are encouraged to utilize the reusable cups, plates, dishes and anything not made from plastic.
6. Use of plastic film to pack or cover any book including magazine or invitation card is completely banned.

*Sabhi*  
16/08/2022  
Principal

(Dr. Sabyasachi Mahanta)  
Principal  
Gargaon College  
Simaluguri, Sivasagar (Assam)



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## Liquid Waste Management

Liquid waste management, also known as waste water management, is a critical aspect of environmental protection and public health. Proper handling and treatment of liquid waste are essential to prevent water pollution and ensure the sustainable use of water resources. Chemicals used in Chemistry, Zoology & Botany labs are diluted and then properly disposed away to eliminate any potentially hazardous substances, even in little amounts. The disposal of the lab's acidic and alkaline chemical waste is safely done. The use of poisonous or radioactive chemicals in the laboratories is forbidden.

## Biomedical Waste Management

Managing biomedical waste is crucial to prevent the spread of infections and protect the environment and public health. Biomedical waste includes materials generated in healthcare facilities, research institutions, and laboratories that may pose a threat to human health or the environment due to their infectious, toxic, or radioactive nature. Even though biomedical waste is produced in extremely small amounts in the institute, it is disposed of properly and with care.



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## Hazardous Chemicals and radioactive waste Management

Managing hazardous chemicals and radioactive waste is of utmost importance to prevent environmental contamination, protect human health, and comply with regulatory requirements. On college campuses, there isn't any production of these wastes till date.

## E-Waste Management

E-waste poses unique challenges due to its complex composition and potential environmental and health hazards. This kind of waste includes discarded electronic devices, components, and accessories, which may contain hazardous materials. Cadmium, lead, mercury, and polychlorinated biphenyls (PCBs), which are hazardous to both human health and the environment, are found in electronic components. On campus, very little electronic trash is produced. The computer lab's broken goods and e-waste are kept in the proper storage. Gargaon College offers an Add-on course on computer hardware networking for the use and repurposing of e-wastes as a sign of best practices. The school has chosen to work with a vendor to collect E-waste from the college and transport it to a disposal site in order to dispose of it in a scientific manner.



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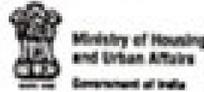
## Cleanliness Drive by Teacher and student





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Certificate of Appreciation awarded by SIMALUGURI MUNICIPAL BOARD, Simaluguri, Sivasagar, Assam, to NSS Unit, Gargaon College for the contribution for Swachha Bharat Mission (U) as well as "Clean India Campaign from 01.10.22 to 31.10.22".



## SIMALUGURI MUNICIPAL BOARD

Simaluguri, Sivasagar, Assam

### Certificate of Appreciation

This is to certify that the NSS Unit, Gargaon College has done an excellent contribution for Swachha Bharat Mission (U) as well as "Clean India Campaign from 01.10.22-31.10.22". We appreciate the service mind and dedication of NSS Unit, Gargaon College towards the Nation Building and Clean India. Gargaon College NSS Unit is an active member of Indian Swachhta League.

The total weight of plastics collected through Swachhta Drive from 1st October, 2022 to 20th October, 2022 → 235 kg.

Date : 10.11.2022

Signature Seal

Simaluguri Municipal Board

*Kabita Meah*

Signature Seal

Simaluguri Municipal Board



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Certificate of Appreciation awarded by SIMALUGURI MUNICIPAL BOARD, Simaluguri, Sivasagar, Assam, to NSS Unit, Gargaan College for successfully participating in the SWACHHTA KE DO RANG-a Swachh Bharat Mission Urban initiative and educating about waste segregation and helping India become Garbage-Free.

Date: 10-11-2022





# MoU with MUNICIPALITY FOR WASTE MANAGEMENT



**Memorandum of Understanding**  
*between*  
**Gargaon College, Simaluguri**  
*and*  
**Simaluguri Municipal Board**  
Date:

Gargaon College and Simaluguri Municipal Board recognize their mutual interest in community participation, environment sustainability, waste management among other areas. Gargaon College and Simaluguri Municipal Board, therefore, agree to establish a programme for cooperation in the areas of mutual interest and in accordance with the terms and conditions set forth in this Memorandum of Understanding (MoU).

#### Objectives

The objective is to facilitate collaboration between the institution and the board, provide opportunity for students in areas of internship and to promote community participation on the basis of mutual benefit, good initiatives, and frequent interactions.

Gargaon College and Simaluguri Municipal Board agree on the following terms:

#### 1. Waste Management:

- The Municipal Board will provide guidance and support to the College in implementing effective waste management practices on its campus.
- The College will collaborate with the Municipal Board to establish waste segregation systems, recycling initiatives, and awareness campaigns to promote sustainable waste management practices.
- Both parties will share relevant information, expertise, and resources to optimize waste reduction and recycling efforts.

#### 2. Internships and Trainings:

- The Municipal Board will offer internship opportunities to eligible students of the College, providing them with practical experience and exposure to waste management projects and initiatives.

- The College will recommend suitable students for internships and facilitate their engagement with the Municipal Board's waste management programs.
- The Municipal Board will organize training sessions, workshops, and seminars for the students of the College, imparting knowledge and skills related to waste management, environmental sustainability, and related subjects.

#### 3. Community Participation:

- The College and the Municipal Board will collaborate to engage the local community in waste management activities, awareness campaigns, and other environmentally-focused initiatives.
- Joint events, such as clean-up drives, recycling workshops, and public lectures, will be organized to encourage active participation and create a sense of environmental responsibility among the community members.
- Both parties will actively involve community stakeholders, including residents, local businesses, and organizations, in the planning and implementation of sustainable waste management projects.

#### Duration and Review:

This MoU shall be effective from the date of signing and remain in force for a period of 5 years. It will be subject to review and renewal by mutual agreement between the College and The Municipal Board.

This MoU would represent the understanding and commitment of both parties to work collaboratively towards waste management, internships, and community participation initiatives. It sets forth the framework for cooperation and lays the foundation for a sustainable and mutually beneficial partnership.

#### Arbitration

In case of any dispute relating to any aspect of collaboration under this MoU, the Principal, Gargaon College and Chairman, Simaluguri Municipal Board will jointly resolve the dispute in a spirit of mutual respect and shared responsibility.

This MoU is hereby signed by the Heads of the respective institutions/boards.

Date:  
Place:

*Selle*

Principal  
Gargaon College  
Simaluguri, Sivasagar (Assam)

*Kabita Meek*

Chairperson  
Simaluguri Municipal Board  
Sivasagar, Assam

*Selle*  
(Dr. Sabyasachi Mahanta)  
Principal  
Gargaon College  
Principal  
Gargaon College  
Simaluguri, Sivasagar (Assam)



*Kabita Meek*

(Kabita Meek)  
Chairperson  
Simaluguri Municipal Board  
Chairperson  
Simaluguri Municipal Board  
Sivasagar, Assam



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## YouTube Links

[Prepare Leaf Compost at College Campus](#)

[Making and using leaf compost at College campus](#)

[Vermicompost Project](#)

[One Day Workshop on Vermicompost for Green  
Livelihood](#)