



গড়গাঁও মহাবিদ্যালয়  
GARGAON COLLEGE

**ENVIRONMENT AUDIT  
2023-24**





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GARGAON COLLEGE

# REPORT ON ENVIRONMENT AUDIT

**Prepared by  
Green Audit Team  
Gargaon College, Simaluguri**





## Environment Audit team

Sl. No.	Name	Designation
1.	Dr. Rina Handique	HOD, Department of Zoology
2.	Dr. Dimbeshwar Das	Coordinator Institutional Level Biotech Hub, Gargaon College
3.	Dr. Surajit Saikia	IQAC Coordinator, Gargaon College
4.	Ms. Sangeeta Chetia	Assistant Professor, Gargaon College
5.	Dr. Saheen Shehnaz Begum	Assistant Professor, Gargaon College
6.	Mr. Jayanta Sonowal	Assistant Professor, Gargaon College
7.	Dr. Anurag Protim Das	Assistant Professor, Gargaon College
8.	Dr. Nazreen Parveen Ali	Assistant Professor, Gargaon College
9.	Ms. Debajani Bakalial	Assistant Professor, Gargaon College
10	Mr. Arian Hazarikaa	Student Representative
11.	Mr. Gitashri Dutta	Student Representative



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This is to certify that the Environment Audit Report of Gargaon College has been prepared based on the findings of green and environmental audit conducted by the college based on the tour of the college, review of the records and interview of faculty, non-teaching staff and the students.

The Environment Audit Report also presents the green initiatives followed and taken up by the college based on recommendations for better environmental sustainability.

**(Dr. Sabyasachi Mahanta)**

Principal

Gargaon College

Principal

Gargaon College

Simaluguri, Sivasagar (Assam)

**(Dr. Prabhat Nath)**

Coordinator

Institutional Biotech Hub

Sibsagar College

Co-ordinator

Biotech Hub

Sibsagar College Joys

**(Dr. Dimbeswar Das)**

Coordinator

**(Jayanta Kr. Dutta)**

Assistant Executive Engineer





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2.	About the College
3.	Objectives of the Study
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5.	Human Health and safety Management
6.	Soil quality management
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9.	Waste Management
10.	Conclusion
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Sl. no.	Areas	Brief Overview
1.	Water Usage and Conservation	<ul style="list-style-type: none"><li>• Water reservoirs for rainwater harvesting are present (pond)</li><li>• Ground level water recharging unit under the guidance of Public Health Department, Nazira is under construction.</li><li>• Rainwater Harvesting Unit is present</li></ul>
2.	Soil quality management	<ul style="list-style-type: none"><li>• Organic manure like leaf compost and vermicompost are used to replace chemical fertilizers.</li><li>• Improve fertility of the soil by plantation.</li><li>• Avoid littering by preventing waste disposal</li></ul>
3.	Air quality management	<ul style="list-style-type: none"><li>• College campus is filled with several numbers of plants to enhance the air quality.</li></ul>
4.	Solid Waste Management	<ul style="list-style-type: none"><li>• Wet and dry dustbins are placed in corridors, in front of the classrooms.</li><li>• Composting pits are created for biodegradable waste like leaves, and food waste.</li><li>• Vermi-composting units are created to convert organic waste (food waste).</li></ul>
5.	Plastic Free campus	<ul style="list-style-type: none"><li>• College has strict regulations towards ban on single-use plastic.</li><li>• College is taking initiatives by displaying boards to create awareness.</li><li>• College canteen uses reusable utensils to reduce plastic use.</li></ul>
6.	E-Waste management	<ul style="list-style-type: none"><li>• The E-waste are utilised as part of Add on course on Computer Hardware Networking</li></ul>
7.	Human safety and Management	<ul style="list-style-type: none"><li>• Sanitary napkin incinerators are present.</li><li>• Fire extinguishers are installed in the campus.</li><li>• Use of tobacco and smoking is completely banned inside the campus</li></ul>
8.	Energy usage and conservation	<ul style="list-style-type: none"><li>• 90% of the conventional bulbs are replaced by LED bulbs to reduce energy consumption.</li><li>• Installation of rooftop solar panels of 300 W.</li><li>• Solar Street lights are present inside the campus</li></ul>





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# INTRODUCTION

The commitment to environmental sustainability is a cornerstone of our institution's values and operational philosophy. As part of our ongoing efforts to promote environmental consciousness and align with the National Assessment and Accreditation Council (NAAC) Criterion 7 on Institutional Values and Best Practices, we have undertaken a comprehensive environment audit. This report aims to evaluate our current environmental practices, identify areas for improvement, and highlight our achievements in fostering an eco-friendly campus.

The environment audit is a systematic process that examines our institution's compliance with environmental policies, the effectiveness of our sustainability initiatives, and the overall impact of our environmental practices. This audit includes an assessment of energy consumption, waste management, water conservation, green campus initiatives, and the promotion of environmental awareness among stakeholders.

By conducting this audit, we seek to:

- Ensure adherence to environmental regulations and standards.
- Enhance resource efficiency and reduce environmental footprints.
- Foster a culture of sustainability within our campus community.
- Identify best practices and areas for improvement.
- Strengthen our institutional commitment to environmental stewardship.

This report provides a detailed analysis of our environmental performance, showcases our efforts towards creating a sustainable campus, and sets forth actionable recommendations to further our environmental goals. It reflects our dedication to not only meeting regulatory requirements but also to exceeding them by integrating sustainable practices into every aspect of campus life.

Through this environment audit, we aim to reaffirm our institution's role as a leader in environmental responsibility and to inspire continuous improvement in our journey towards a greener future.







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## About the College

Situated in a historically and culturally significant location, Gargaon College stands out for its picturesque setting and robust infrastructure. Boasting smart classrooms, a cutting-edge digital library, and academic conference rooms, the college provides a conducive environment for learning. Beyond academics, it caters to the holistic development of students with facilities like a gymnasium, indoor stadium, and a sports ground, fostering a vibrant and spirited youth culture. In addition to conventional courses, the college offers postgraduate programs in distance mode and a range of competence-based courses, enabling students to refine their talents and acquire employability skills.



The institution maintains an impressive student-teacher ratio, facilitating personalized attention and guidance for individual students. This approach has yielded remarkable results over the years, with students consistently achieving outstanding exam results. A substantial number of graduates pursue higher education and professional courses annually, showcasing the college's commitment to nurturing successful careers.

Gargaon College's historical backdrop includes the Kareng Ghar, a seven-storied Royal Palace from the Ahom Kingdom era, adding to its significance. The lush green campus serves as a haven for biodiversity, housing numerous bird species, fish varieties, and medicinal plants. Sustainability initiatives like the organic garden and vermicompost project highlight the college's commitment to eco-friendly practices.

A total of 33 bird species, more than a 100 fish varieties, and over two hundred medicinal plants have been identified on the campus. The college's commitment to sustainability is evident through initiatives such as an organic garden and a vermicompost project, promoting eco-friendly agricultural practices. In the greenery of the college, there are 3 biodiversity parks, pisciculture units for fish rearing a

The expansive green campus of Gargaon College is not merely a backdrop but a vital component of the institution's identity. It serves as an oasis of tranquility and inspiration, fostering an environment conducive to learning and personal growth. The meticulously maintained greenery, including lush lawns, vibrant flower beds, and shaded walkways, creates a soothing atmosphere that encourages contemplation and relaxation. Moreover, the college's commitment to environmental stewardship extends beyond its academic offerings. The campus is home to diverse flora and fauna, with students actively participating in initiatives such as tree plantation drives and biodiversity awareness campaigns. The college's dedication to sustainability is exemplified by the presence of solar panels, rainwater harvesting systems, and eco-friendly waste management practices. The verdant surroundings not only enhance the aesthetic appeal of the college but also contribute to its ecological diversity. The campus has become a haven for numerous bird species, butterflies, and small mammals, creating a harmonious coexistence between nature and academia. This unique blend of a green haven and academic excellence underscores Gargaon College's commitment to holistic education and environmental responsibility, making it a symbol of inspiration for future generations. This unique blend of historical significance, academic excellence, and environmental consciousness positions Gargaon College as a distinguished institution dedicated to shaping well-rounded individuals and contributing to the preservation of cultural and ecological heritage.





## OBJECTIVES

## GOALS

1. Identification and documentation of environmental practices followed by the college.
2. Identify strengths and weaknesses in environmental practices.
3. Assess facility of different types of waste management.
4. Increase environmental awareness throughout campus
5. Identify and assess environmental risk.
6. Motivates staff for optimized sustainable use of available resources.
7. The long-term goal of the environmental audit program is to collect baseline data on environmental parameters and resolve environmental issues.

## OBJECTIVES

1. To examine the current practices, which can impact the environment such as resource utilization, waste management, etc.
2. To identify and analyze significant environmental issues.
3. Set up goals, vision, and mission for environmental practices on campus.
4. Establish and implement Environment Management in various departments.
5. Continuous assessment for betterment in performance in the environment.

## SCOPE

The broad scopes and benefits of the environment-auditing system would be

1. Environmental education through a systematic environmental management approach
2. Improving environmental standards
3. Benchmarking for environmental protection initiatives
4. Sustainable use of natural resources on campus.
5. Financial savings through a reduction in resource use
6. Curriculum enrichment through practical experience
7. Development of ownership, personal and social responsibility for the College campus and its environment
8. Developing an environmental ethic and value systems in young people

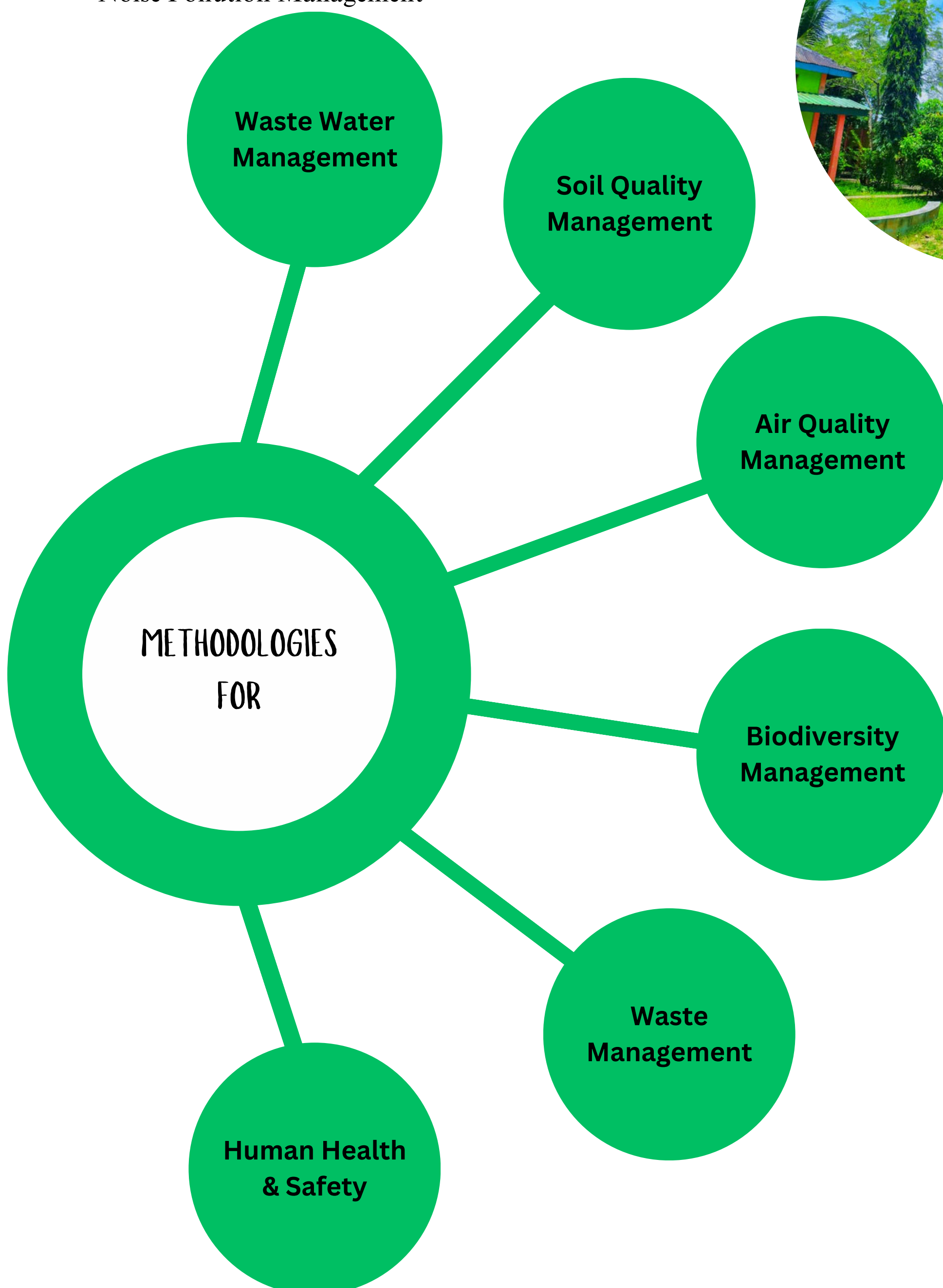




## METHODOLOGY

The approach for doing an environmental audit comprised several instruments such as data gathering, physical inspection of the campus, observation and study of paperwork, interviewing key people, data analysis, measurements, and suggestions. The audit was carried out through a combination of site visits, interviews with key personnel, and a review of relevant documents, policies, and practices. To describe the current state of environmental management on campus, the assessment focused on key areas such as:

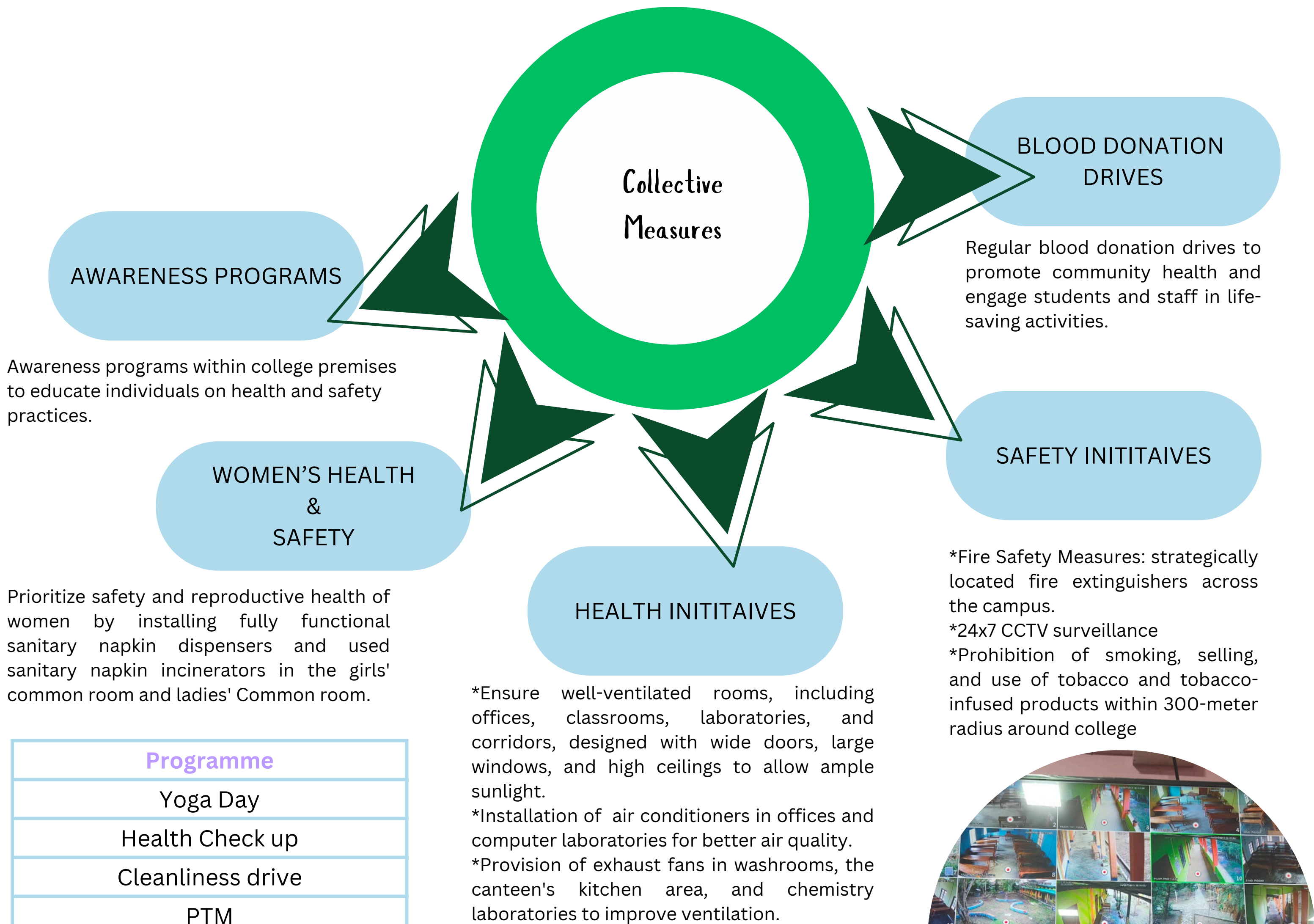
- Water Management and Usage
- Soil Quality Management
- Air Quality Management
- Biodiversity conservation
- Waste Management
- Human Health and Safety Management
- Noise Pollution Management







# Human Health and Safety Management



Programme
Yoga Day
Health Check up
Cleanliness drive
PTM
World environment day
National Days
"Best of Waste" Training







## Soil Quality Management

This indicator takes into account measures to improve soil fertility so as to have better quality nutrients for the plants in the campus. With careful consideration, organic manure such as compost of leaves, vermi-compost has replaced the use of chemical fertilisers all together. Planned and better plantation leads to improved fertility of the soil and to achieve these stakeholders of the college avoid littering by cost and time efficient waste disposal. More greenery has been added consistently in order to improve ground water resource.

To elaborate upon the ways, the waste management point the following organogram provides an elaborate insight into management of different types of wastes that would otherwise deteriorate soil quality.

### STEPS UNDERTAKEN

Organic Farming  
at college

Plantation drive  
by students &  
teachers to  
conserve soil

Plastic Bottle  
Bank

Vermi-compost  
unit for soil  
nutrient  
enrichment

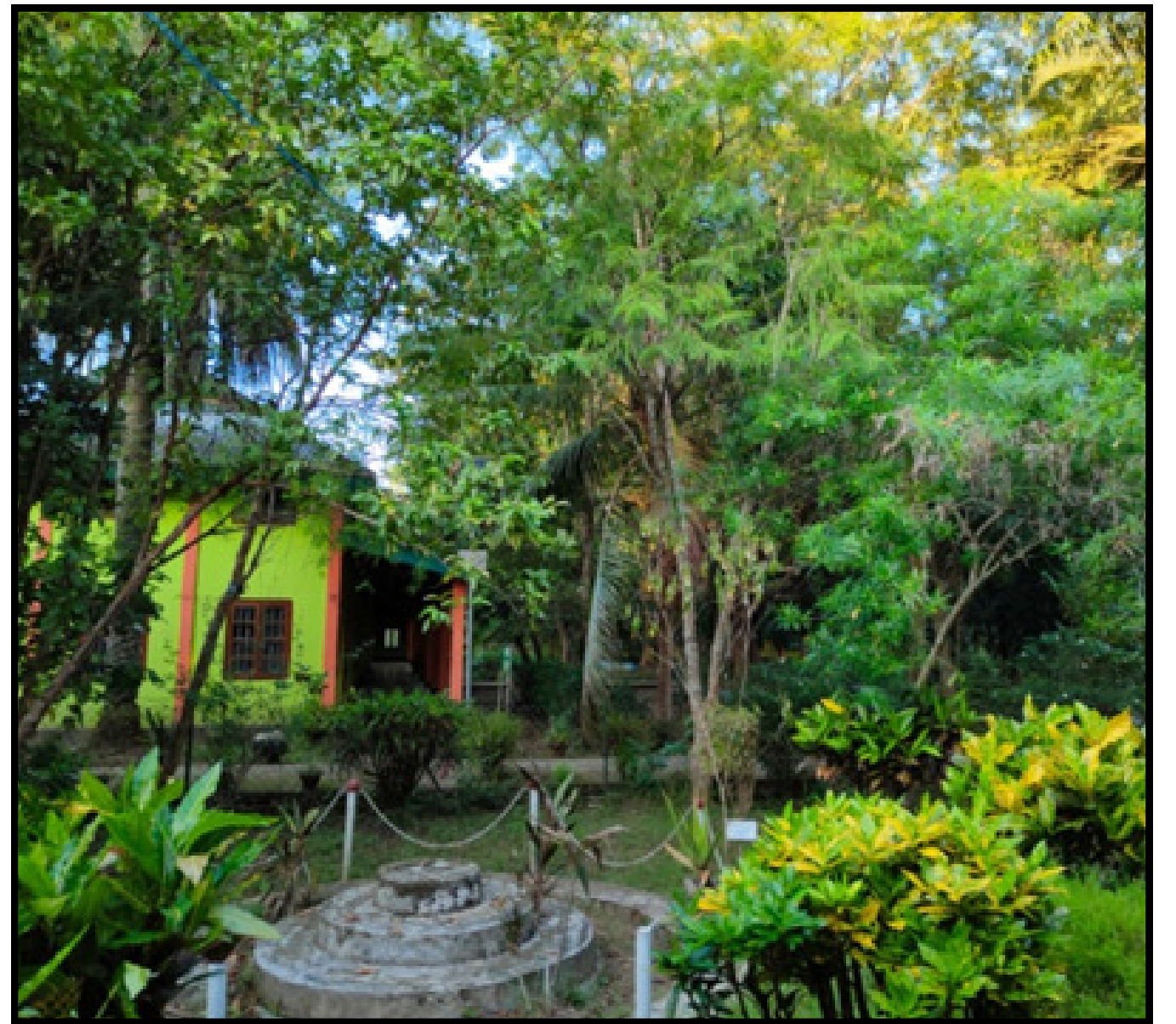






# Air Quality Management

This indicator includes the management, and initiatives taken by the college to clean and enhance the air quality within campus. All the activities and actions undertaken help protect human health and the environment from the harmful effects of air pollution. The college campus is filled with enormous numbers of plants to enhance the air quality. Different kinds of trees, shrubs, and herbs present inside the campus play a very major role in reducing carbon footprint.



To effectively manage air quality at Gargaon College, several measures have been implemented

1. Air Quality Assessment is conducted to have a comprehensive air quality assessment to identify the sources of air pollution within and around the college campus. This assessment should include monitoring of pollutants such as particulate matter (PM<sub>2.5</sub>, PM<sub>10</sub>), nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), volatile organic compounds (VOCs), and others
2. Implementation of Green Practices to promote sustainable practices within the college campus. We also encourage the use of energy-efficient appliances.
3. Alternative Transportation is encouraged. Students, faculty, and staff are encouraged to use alternative modes of transportation, such as cycling, walking, or carpooling, to reduce vehicle emissions. The college has also taken the initiative of “No Vehicle Day” once a year. A strict regulation was followed by all faculty members and workers of the college to bring no car on that day to the college campus.
4. Indoor Air Quality is enhanced by regular maintenance of ventilation systems and ensuring proper air circulation.
5. Raising awareness, collaboration with local authorities, and encouragement towards research initiatives focused on air quality management along with regular monitoring and evaluation is maintained.

Air quality management is an ongoing process that requires continuous efforts and involvement from all stakeholders. By implementing these measures, Gargaon College can contribute to a healthier and cleaner environment for the college community and the surrounding areas.





# Water Management and Usage

Water usage, water sources, irrigation, appliances, and fixtures are all addressed within this indicator. The main source of water is ground water. It must be noted that water supplied by the government is also utilised within the campus and the hostels. Other than that, rain water collecting pit or pond is present in order to recharge ground water. Water is used for drinking purpose, toilets and gardening. There is no loss of water by any leakage or overflow from overhead tanks. Water reservoirs for rain water harvesting is present and are well maintained. To ensure safe drinking water for all, several water purifying units are present – in most departments, in common areas as well as the canteen, available to all. Gardens are watered by using drip/sprinkler irrigation system to minimize water use. Under the guidance of Public Health Department, Nazira ground level water recharging unit is under construction.

Vegetable garden 1 acre	400 L/day during winter 1000 L/day during summer
Drinking (No of students, approx. fig)	1000 L/day



Rain water harvesting unit



Water tank for College usage



Rain water harvesting for recharging of ground water





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## Maintenance and Cleaning of the Water body

The water body at the Gargaon college is cleaned on a regular basis to take care of the aquatic life and the area ecosystem around it. The water body is maintained periodically so as to provide sustainable, continuous, economically safe, and adequate water to the campus. Another objective of the maintenance is to provide diseases free environment

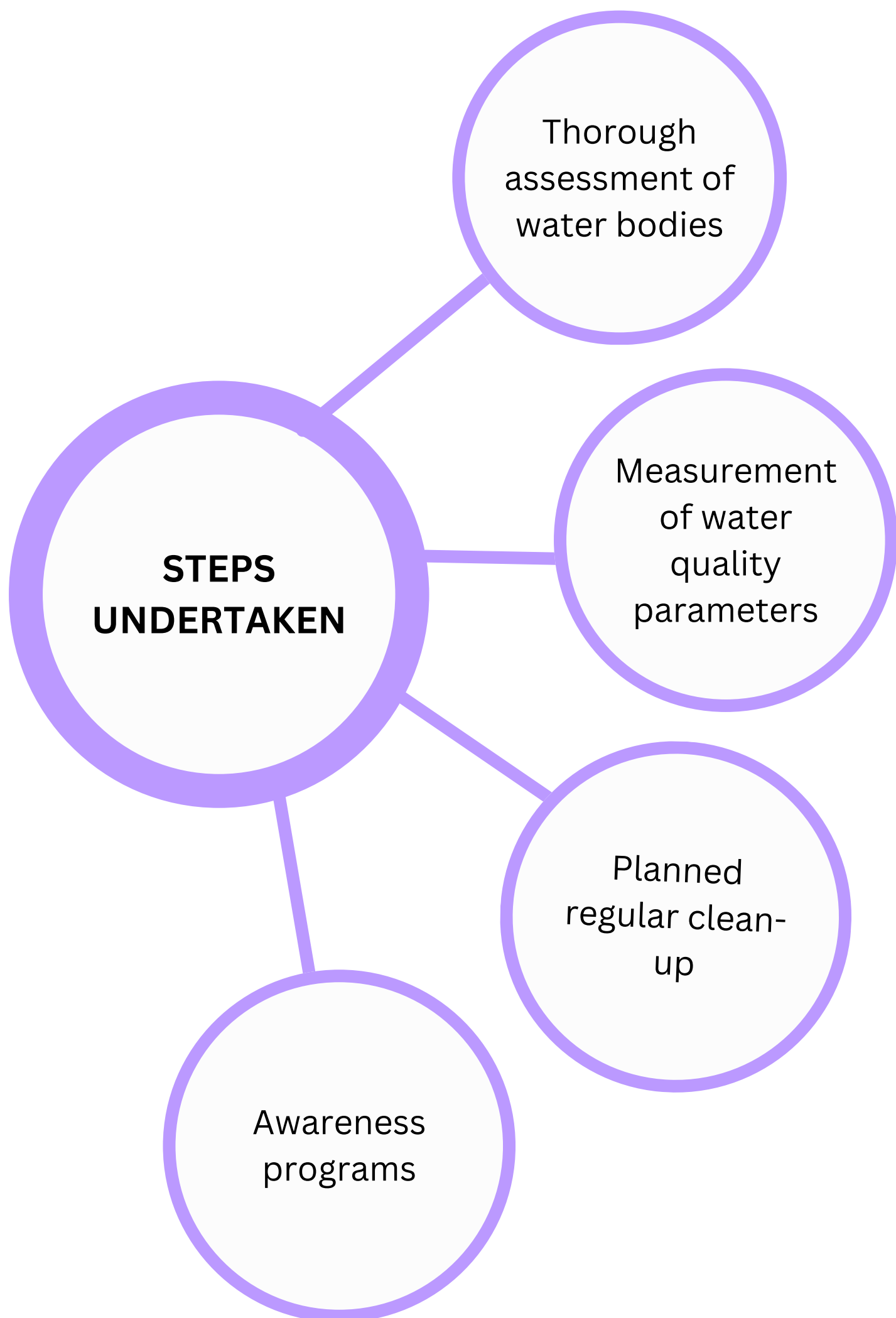


Annual cleaning of weeds and overgrown vegetation of the pond inside the campus



Pictures taken after the cleaning process is complete





## STEPS FOR THE LONG RUN

1. Awareness campaigns to educate the college community about the importance of clean water bodies and the impact of pollution. by utilizing various communication channels such as posters, social media, and campus events to spread the message and encourage participation.
2. Implementation of preventive measures to reduce pollution and maintain the cleanliness of the water body is equally emphasized.
3. To monitor and evaluate the progress is necessary to continuously monitor the water body's condition to track improvements and evaluate the effectiveness of cleaning initiatives.

Cleaning a water body is an ongoing process, and it requires sustained efforts to ensure long-term cleanliness and protection. By involving the college community and raising awareness, we can make a significant impact on preserving the water body for future generations.

1. A thorough assessment of the water body is done to understand the extent of the pollution and to identify the specific areas that need attention. This involves measuring water quality parameters, examining the surrounding area, and documenting any visible pollutants
2. A planned regular clean-up is carried out where volunteers consisting of students, faculty members, staff and local people come together to remove trash and debris from the water body and its surroundings. The college provides necessary utilities such as equipment, buckets, gloves when required, trash bags, and any other necessary equipment to ensure everyone's safety
3. Appropriate departments are consulted to ensure compliance with regulations.





## Waste Management

This indicator looks at the production and disposal of various wastes such as paper, food, plastic, construction, glass, dust, and so on, as well as recycling. Furthermore, solid trash frequently contains squandered material resources that may be put to greater use through recycling, repair, and reuse. Since the unscientific waste disposal can endanger everyone, the Gargaon College fraternity is conscious about the amount, kind, and present handling of waste created on campus and how to reuse and properly dispose them.

The campus generates a substantial amount of solid trash through tree droppings. Leaf composting pits are present inside the campus to convert dried leaves into manure. Students are also encouraged to participate in this regard. Separate dustbins for biodegradable and plastic garbage are provided at the point of collection. In all departments, single-sided old sheets are reused for writing and printing, and both side printing is encouraged. Some selected old newspapers are preserved for further research, issue analysis, etc. and rest are handed over to local vendors and old magazines are archived. The department, office, garden, and other areas create very little plastic garbage (0.1 kg per day), which is not classified at the moment of generation nor sent for recycling. Metal and timber trash are collected and sent to licenced scrap dealers for further processing. The existing plastic waste and E-waste are disposed at the municipal collection centre. The municipal corporation collects solid garbage and disposes of it according to its procedures. Installation of a sanitary napkin incinerator at ladies waiting room and in the girl's common room to reduce plastic waste is also a good and hygienic practice.

We want to reduce the total quantity of garbage generated by college staff offices and make use of all municipal and private recycling facilities, such as glass, cans, white, coloured, and brown paper, plastic bottles, batteries, print cartridges, cardboard, and furniture. Biodegradable garbage, such as leaves and food waste, is composted in pits, while organic waste (food waste) is converted into organic manure in vermi-composting units.







# Solid Waste Management

## STEPS INVOLVED

### Segregation of waste

- Segregation of waste begins in the classroom.
- Each classroom dust bins and the common areas have two dust bins, one for biodegradable materials and the other for non-biodegradable materials.
- Wet and dry dustbins are placed in corridors, in front of the classrooms.

### Plastic free campus initiatives

- Gargaon College has strict regulations towards plastic use and a complete ban on single-use plastics.
- Creating awareness of the environment is one of the significant mandates.
- It is done by putting up display boards as well as awareness programs.
- In practice, besides banning single-use plastic, the college canteen uses reusable utensils as well as paper cups and plates to become environmentally more friendly.

### Hands on training for "Waste to wealth"

- Gargaon College conducts several student-centric programmes throughout the year that encourages students to prepare different types of items, particularly decorative items that are made individually and show-cased amongst the fraternity of the college
- This is done to infuse the idea that plastic is non-biodegradable and can and should be reused instead of being thrown to reduce the soil quality and affect plants and animal life.



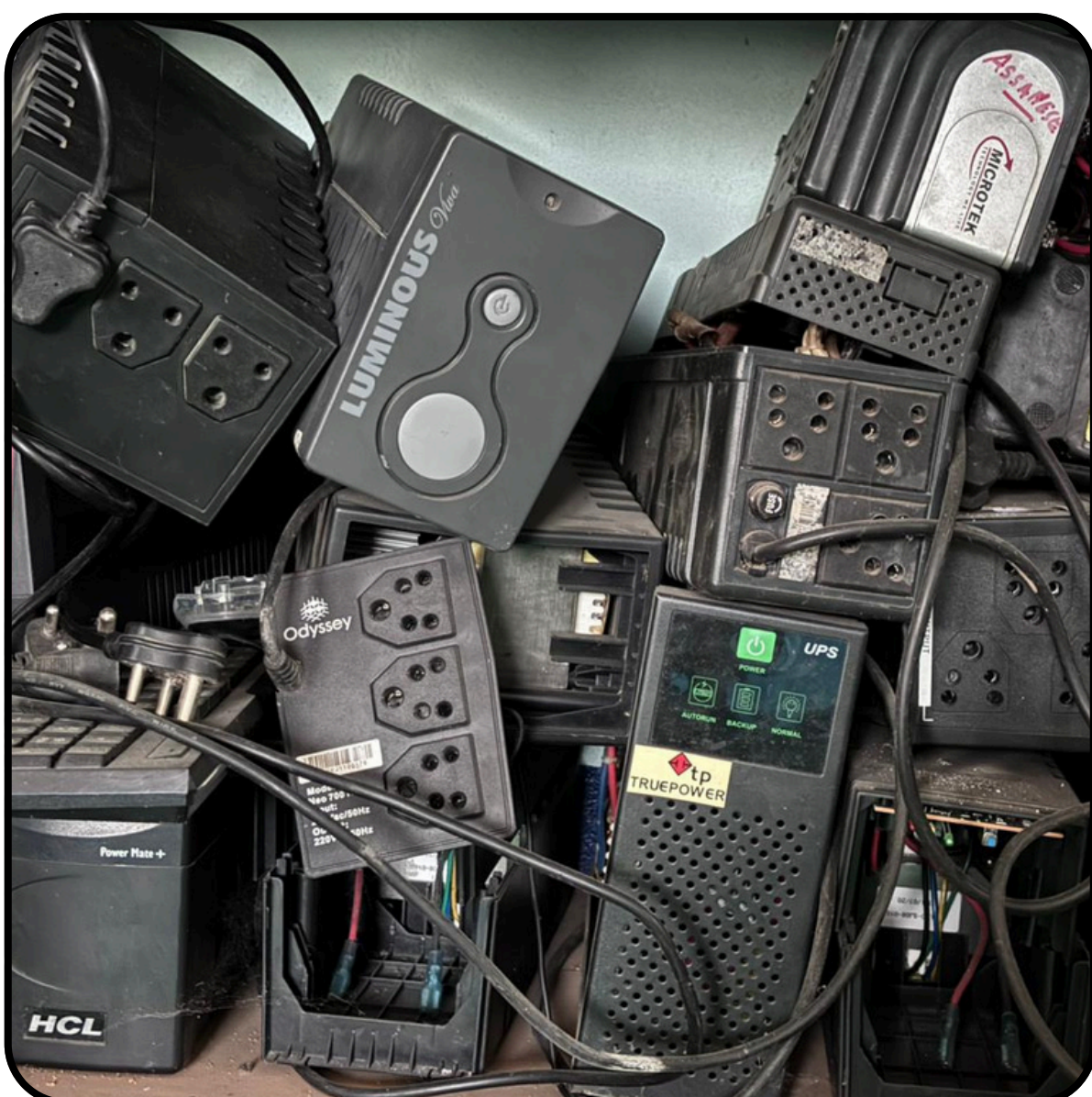
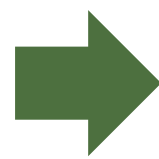
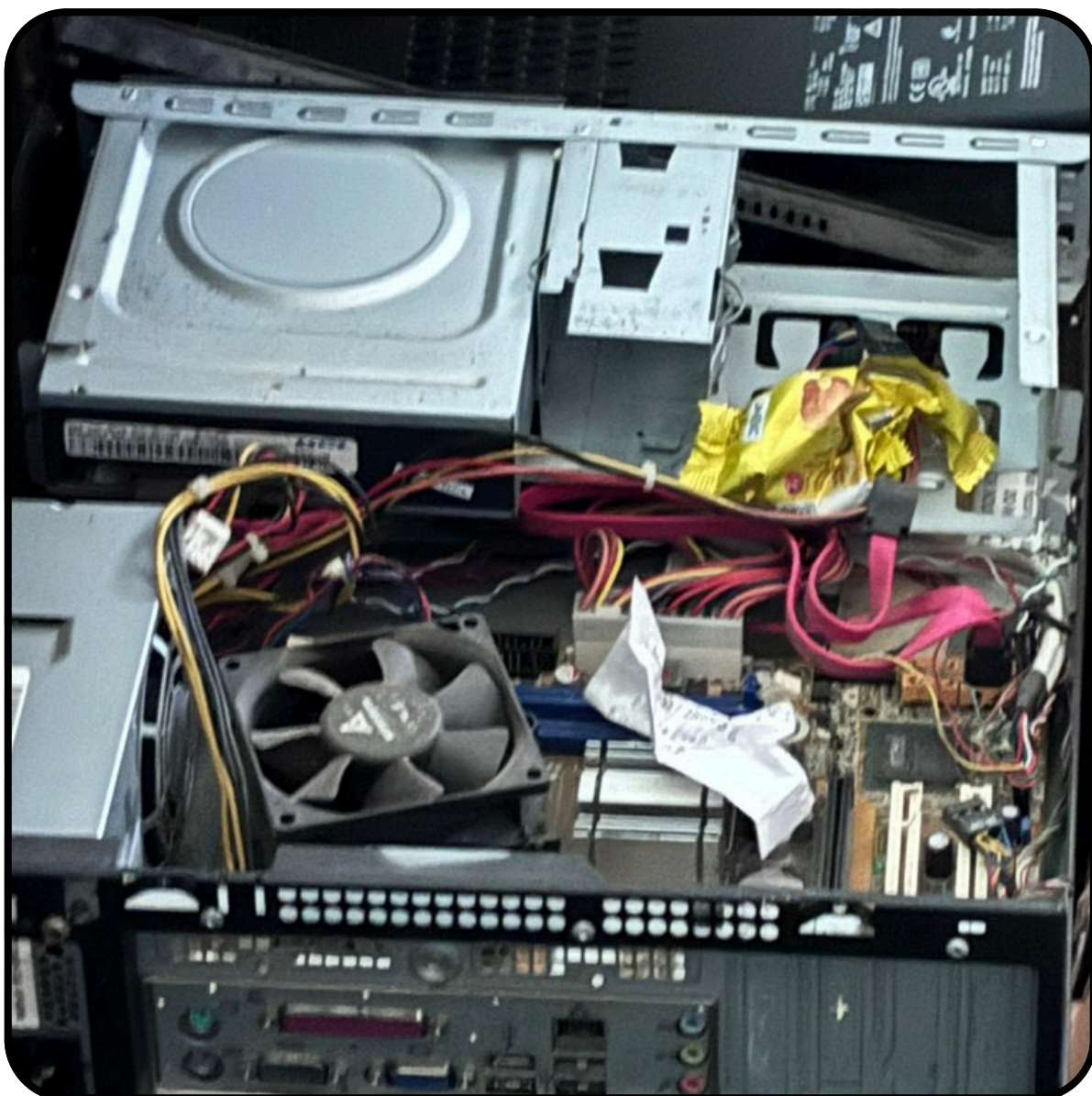




## e-Waste Management

Electronic components contain cadmium, lead, mercury, and polychlorinated biphenyls (PCBs), which can harm human health and the environment. The amount of e-waste created on campus is quite little. E-waste and damaged items from the computer lab are appropriately stored. As a measure of good practice, Gargaon College has an Add-on course on computer hardware networking for utilization and re-utilization of e-wastes. In order to dispose of E-waste in a scientific way, the institution has opted to contact a vendor to collect E-waste from the college to be taken to disposal facility.

To do the same, Memorandum of Understanding exists between Gargaon College and Purbanchal Scrap Trading exists to facilitate proper e-waste management, promote environmental sustainability and facilitate collaborative efforts. The purpose of the collaboration is to ensure environmentally responsible handling of e-waste in compliance with relant regulations and to promote sustainable practices within both institutions.



BEFORE

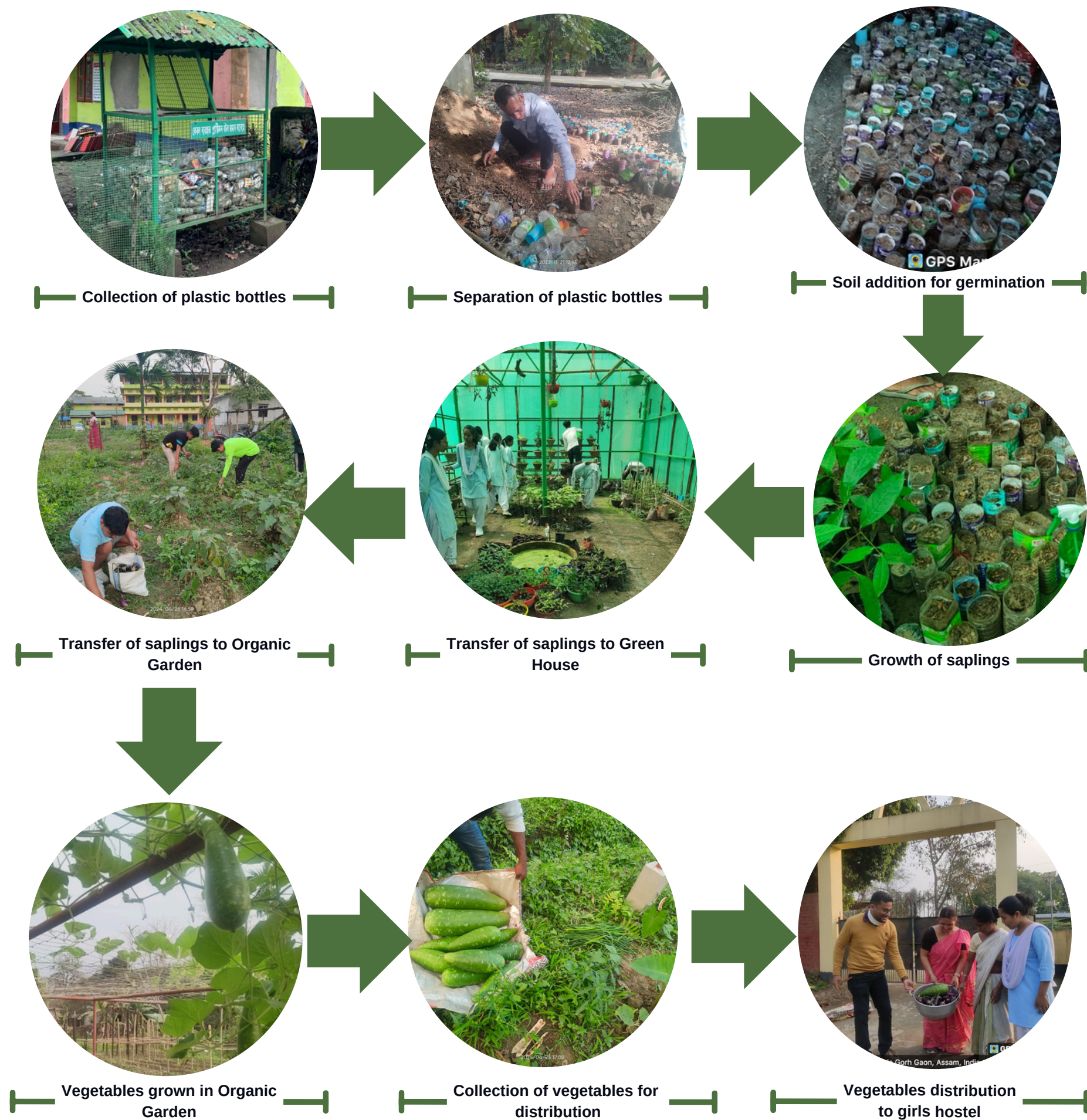
AFTER





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# Plastic Waste Management



## Rationality of Plastic Bottle bank construction

- Plastic bottle banks have been constructed at crucial places of the campus for the reuse of used plastic bottles. It serves the following functions:
- By providing a designated place for students to dispose of their plastic bottles, colleges can help mitigate plastic pollution by ensuring proper recycling and disposal practices.
- To foster a culture of environmental awareness as a tangible reminder of recycling and reducing plastic waste so as to adopt more sustainable habits.
- The use of plastic bottles for germination and growth of saplings. The saplings once grown are then transferred to either the Green house or the organic garden of the college. The plants are grown organically by using the leaf compost from the vermicomposting units. Once the vegetables mature and ripe, those are plucked and distributed to the boarders of the hostel.

**GARGAON COLLEGE**  
ESTD: 1959  
Reaccredited by NAAC with B Grade  
Simaluguri - 785686, Sivasagar, Assam  
E-mail: gargaoncollege@rediffmail.com www.gargaoncollege.ac.in  
Tel: 03772-252251 Fax: 03772-252251

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.

Principal

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





## Conclusion

The environmental audit of Gargaon College has provided a comprehensive assessment of the institution's ecological footprint, highlighting areas of strength and opportunities for improvement. The audit reveals a commendable commitment to environmental sustainability through existing practices such as waste management, energy conservation, and green campus initiatives. The areas including enhanced water conservation measures, increased use of renewable energy sources, and expanded environmental education programs have also been addressed. By addressing these areas, Gargaon College has significantly reduced its environmental impact and continues to serve as a model of sustainability in higher education. The recommendations outlined in this audit serve as a roadmap for the college to enhance its environmental performance and achieve its sustainability goals.

The audit process involved detailed analysis and data collection from various departments and facilities within Gargaon College. This rigorous examination has allowed for a clear understanding of the college's current environmental practices and their effectiveness. It was found that the college has already implemented several green initiatives, such as maintaining a well-kept campus with ample green cover, promoting the use of bicycles, and organizing regular tree-planting drives. These initiatives have not only enhanced the aesthetic appeal of the campus but have also contributed positively to the local ecosystem. Even the energy consumption has substantial reliance on renewable sources. The introduction of solar panels and other renewable energy systems has reduced the college's carbon footprint.

Furthermore, waste segregation practices are in place, with recycling and composting organic waste. Implementing a more robust waste management system will ensure that the college minimizes its environmental impact. Additionally, water usage patterns indicate good conservation strategies. Installing water-efficient fixtures, rainwater harvesting systems, and conduct of regular maintenance of existing conservation measures have significantly reduced water wastage.

The audit also found the integration of environmental topics into the curriculum and the organization of workshops and seminars to raise awareness among students and staff about sustainable practices.

In conclusion, Gargaon College has made commendable progress in its journey towards sustainability, but there is some scope for enhancement. By embracing the recommendations provided, the college can further its commitment to environmental stewardship. This proactive approach will not only benefit the college community but also contribute to broader environmental conservation efforts. Gargaon College stands poised to become a leading example of how educational institutions can successfully integrate sustainability into their core operations and culture.







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## Youtube link of various activities



[e-rickshaw at college campus](#)



[Celebration of world Ocean day](#)



[Fish release and rearing at college pond](#)



[Agaru Plantation at college Campus](#)



[Plantation drive](#)



[Solar lights at the campus](#)



[Campus ecology of the college](#)





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## Youtube link of various activities

[Organic Garden of the college](#)



[Workshop on Vermicompost](#)



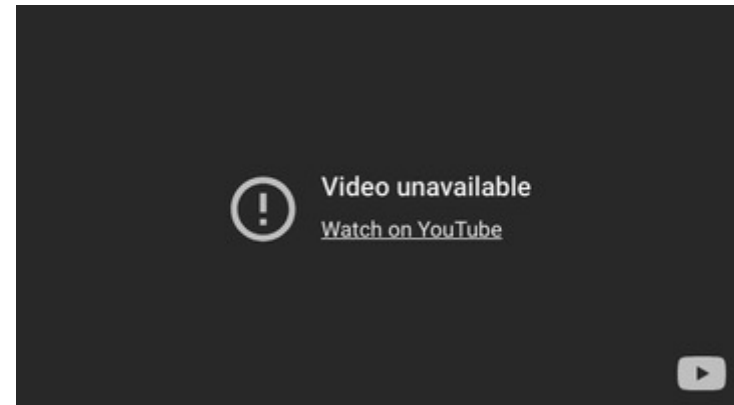
[Vermicompost Project](#)



[Making of and using leaf-compost](#)



[Observance of World Wetland Day](#)



[Fish production at college pond](#)



[World Ozone Day Celebration](#)



[Banana Leaf Plate preparation](#)




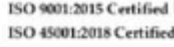



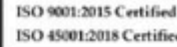


# গড়গাঁও মহাবিদ্যালয় GARGAON COLLEGE

## Annexure

Test reports of various determinant in determination the ecological health of the college campus

 <b>envirocon</b>		Envirocon Building, I.O.C.L.(AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com		 ISO 9001:2015 Certified ISO 45001:2018 Certified		
Formet No.: ENV/R/TR/19/DW-01						
Report No.		ENV/GGC/SIV/22-23/DW-01		Issue Date		
Order No.		Telecon		Order Date		
Report Issued To		GARGAON COLLEGE Simaluguri, Sivasagar - 785606, Assam				
Sample Ref. No.:		ENV/GGC/DW-01		Sample Source:		
Date of Sampling:		13.07.2022		Sample Type:		
Analysis Start Date:		14.07.2022		Sample Quantity:		
		Analysis End Date:		Sampled By:		
		18.07.2022		Jadav Dey		
TEST RESULTS						
Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units	IS 3025 (Part 4)	1	-	5	15
2.	Odour	IS 3025 (Part 05)	No Odour	-	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 07)	No Taste	-	Agreeable	Agreeable
4.	Turbidity	IS 3025 (Part 10)	0.2	NTU	1	5
5.	pH	IS 3025 (Part 11)	6.79	-	6.5 - 8.5	No Relaxation
6.	Total Dissolved Solids	IS 3025 (Part 16)	95	mg/l	500	2000
7.	Calcium (as Ca)	IS 3025 (Part 40)	14	mg/l	75	200
8.	Chloride (as Cl)	IS 3025 (Part 32)	6.2	mg/l	250	1000
9.	Copper (as Cu)	IS 3025 (Part 42)	BDL [MDL: 0.001]	mg/l	0.05	1.5
10.	Fluorides (as F)	IS 3025 (Part 60)	BDL [MDL: 0.1]	mg/l	1.0	1.5
11.	Free Residual Chlorine	IS 3025 (Part 26)	BDL [MDL: 0.01]	mg/l	0.2	1
12.	Iron (as Fe)	IS 3025 (Part 53)	BDL [MDL: 0.001]	mg/l	0.3	No Relaxation
13.	Magnesium (as Mg)	IS 3025 (Part 46)	2	mg/l	30	100
14.	Manganese (as Mn)	IS 3025 (Part 59)	BDL [MDL: 0.001]	mg/l	0.1	0.3
15.	Zinc (as Zn)	IS 3025 (Part 49)	BDL [MDL: 0.01]	mg/l	5.0	15
16.	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34)	0.8	mg/l	45	No Relaxation
17.	Sulfate (as SO <sub>4</sub> )	IS 3025 (Part 24)	BDL [MDL: 1.0]	mg/l	200	400
18.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23)	54	mg/l	200	600
19.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	41	mg/l	200	600
20.	Total Arsenic (as As)	IS 3025 (Part 37)	BDL [MDL: 0.001]	mg/l	0.01	0.05
21.	Total Chromium (as Cr)	IS 3025 (Part 52)	BDL [MDL: 0.001]	mg/l	0.05	No Relaxation
BDL: Below Detectable Limit, MDL: Minimum Detectable Limit						
*****End of Report*****						
*Limits as per IS 10500:2012						
Remarks: Tested results are found to be within limit.						
Authorized By: Mr. Pankaj Baroi (CEO)						
NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement. 2. Results refer only to the particular parameters tested. 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L. (AOD) New Market, Digboi - 786171, Assam.						

 <b>envirocon</b>		Envirocon Building, I.O.C.L.(AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com		 ISO 9001:2015 Certified ISO 45001:2018 Certified	
Formet No.: ENV/R/TR/19/N-01					
Report No.		ENV/GGC/SIV/22-23/N-01		Issue Date	
Order No.		Telecon		Order Date	
Report Issued To		GARGAON COLLEGE Simaluguri, Sivasagar - 785606, Assam			
Sample Source:		Around College Campus		Weather Condition:	
Sound Meter Used:		SL-4010/Lutron		Date of Monitoring:	
		Sampled By:		Jadav Dey	
TEST RESULTS					
Sl. No.	Locations	Time Duration	Lmax (dB-A)	Lmin (dB-A)	Leq (dB-A)
1.	Front of Administrative Office	10:15 - 10:30	48.2	42.6	44.5
2.	Front of Girls Hostel	10:45 - 11:00	46.3	38.4	42.9
3.	Front of Auditorium	11:30 - 11:45	51.2	41.7	47.8
*****End of Report*****					
Limit: As per CPCB Guidelines Leq < 50 dB-A					
Remarks: Tested results are found to be within limit.					
Authorized By: Mr. Pankaj Baroi (CEO)					
NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement. 2. Results refer only to the particular parameters tested. 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L. (AOD) New Market, Digboi - 786171, Assam.					





## Annexure

## MoU



**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.

  
Principal  
Gargaon College  
Simaluguri, Sivasagar (Assam)

  
Chairperson  
Simaluguri Municipal Board  
Sivasagar, Assam

- 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:

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

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

