



GREEN AUDIT REPORT FY 2021-2022

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1 ACKNOWLEDGEMENT

TECHNO CONSULTANT team thanks the management of Sagar Mahavidyalaya for assigning the project of Green, Environment & Energy Audit. We appreciate the co-operation extended to us for completion of the project. Our special thanks are extended to:

Principal- Mr. Prabir Kumar Khatua (TIC)
IQAC Co-Ordinator– Mr. Shivdayal Chaudhari

Also, our sincere thanks to teaching & non-teaching Staff of College for giving us necessary inputs to carry out this very vital project of Green Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field assessments.

2 DISCLAIMER

TECHNO CONSULTANT Green Audit Team has prepared this report for Sagar Mahavidyalaya based on input data submitted by the representatives of college complemented with the best judgment capacity of the audit team. It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report. If you wish to distribute copies of this report external to your Institute, then all pages must be included. TECHNO CONSULTANT, its staff and auditors shall keep this report confidential and shall not disclose any such information to any third party, except that in the public domain or required by law or relevant accreditation bodies. TECHNO CONSULTANT also confirms that during this audit, no environmental monitoring was done with the help of instruments.

The entire report is compiled by Mr. Dev Deepta Nandy, Lead Auditor- ISO 14001:2015 (Environment Management System) IRCA Certificate No. 11606 dated 13th November 2006 & Team Member.
On Site audit was conducted on 24th & 25th March 2022.

3 ABOUT SAGAR MAHAVIDYALAYA

Sagar Mahavidyalaya played the role of a trailblazer in the field of higher education for Sagar Island. Sagar Islanders found an outlet to peep into the wider world of education as soon as Sagar Mahavidyalaya started its dream journey from Sundarban Janakalyan Sangha Vidyaniketan, Rudranagar with some budding students on and from 12th Sept. 1998.

Despite the remoteness and the transportation inaccessibility to Sagar Island, Sagar Mahavidyalaya sailed off through uncharted sea with flying colours opening its door to welcome the students to flutter their wings freely in order to achieve perfection in their respective fields and to reach the pinnacle of success in a congenial atmosphere.

In spite of the constant dearth of permanent faculty members, we have been striving to provide quality education to the students and trying to equip them with practical skills necessary for leading an honest and successful professional life and a decent and committed personal as well as social life. Keeping in mind the demands and needs of the pupils of the Islands, we are trying to introduce new courses of study which would be of benefit both to the students and the Islanders.

We made a commendable mark in games and sports for the last few years. We regularly celebrate Annual Social programme (Aswamedh), Independence Day, Republic Day and Saraswati Puja with due pomp and grandeur and in colourful manner. We have introduced Smart Class Room, Career Counselling Cell, Multigym, Virtual Class Room and other technological accessories for the betterment of the students. It is worth mentioning that our dream has been translated to reality with the opening of a new science faculty and Sanskrit Honours in the year 2015. We are really grateful to the hon'ble Chief Minister of West Bengal - Ms. Mamata Banerjee, for her benevolent hands for opening the new science faculty as well as the erection of new science building. We actually believe in holistic development of the students. Sagar Mahavidyalaya has successfully opened Netaji Subhas Open University 'Study centre' to pursue M.A. in English, Bengali, History, Education, Political Science and Social Work. Students can also pursue BLIS and MLIS.

We now need the co-operation and encouragement from the parents and guardians of the students and the other Islanders so that we can continue our efforts for providing proper academic atmosphere and opportunities to our students in spite of our infrastructural constraints. We know that whatever has been achieved is 'petty' compared to the 'undone vast but let us hope and strive together. Where there is a will, there is a way. So let us take inspiration from the great poet, Tennyson and pledge to "To strive, to seek, to find, and not to yield".

3.1 Vision

- ✚ The motto of Sagar Mahavidyalaya; "Knowledge is Freedom", is indeed the guiding force behind the policies taken by the institute in order to uphold the mission and vision of the college.
- ✚ The governance and decision making in this college is based on participative management and democratic views. The Governing Body of the college cooperates with the Teacher-in-Charge in every matter to establish and regulate a cordial and scholastic environment in the college. The Teacher-in-Charge personally communicates with the teaching and non-teaching staff members to ensure they are not facing any incongruities in their work.
- ✚ The academic and co-curricular activities of the college are regularly discussed in the Teachers' Council and Academic Sub- Committee meetings which are held regularly. The institution strictly adheres to the Academic calendar.
- ✚ The administration of this college is very student friendly. In cases of emergency and natural calamities, the college is always quick to take necessary official actions like reducing the admission and semester fee or arrange books for the students.
- ✚ All faculty members actively participate in designing and implanting strategic plans and also collaborate with the students in arranging functions and fests.

3.2 Mission

- ✚ To provide quality education to the students irrespective of caste, creed, religion, and diverse socio-economic status
- ✚ To nurture a sense of inclusiveness and ensure equity
- ✚ To promote a culture which is sensitized properly about sensitive issues like gender equality, climate change, freedom of speech, creativity

- ✚ To stimulate an academic environment where young minds can thrive on individuality, experimentation and innovation and become intellectually sound, empathetic and self-reliant.



Map View of Sagar Mahavidyalaya

3.3 The student and faculty strength of the college




Number	Gents	Ladies	Total
No of students	903	968	1871
No of teachers	7	4	11
No of Non-teaching staffs	5	3	8

3.4 Physical Structure

The college is located in about 2.9 acres of land. The built-up area of the college is 14000 Sq. ft.

Departments' Room	8
Classrooms	30
Girl's common room	1
Gymnasium	1
Staff Room	1
Principal Room	1
Smart Class Room	1
Boys Toilets	5
Ladies Toilets	4
Male Staff Toilet	4
Female Staff Toilet	3
Laboratories	4
Conference Hall/Seminar Hall	1
Meeting room	1
IQAC Room	1
Office Room	1
Guest Room	2
Library Reading room	1
Library Stock Room	1
Union room	1
NSOU Office	1
NCC Office	1
Canteen	1
Garbage collection bins	
Store Room	1
Generator Room	1

3.5 List Of Departments

-  Bengali
-  English
-  Sanskrit
-  Physical Education
-  Political Science
-  History
-  Geography
-  Education
-  Physics
-  Chemistry
-  Mathematics
-  Botany
-  Zoology

3.6 Course Offered

Subjects offered by the Faculty of Arts:

- ✚ Advanced (Honours) Courses in Bengali, English, History, Geography, Political Science, Sanskrit and Education.
- ✚ General Degree Courses in Bengali, English, Geography, History, Political Science, Sanskrit, Physical Education and Education.

Subjects offered by the Faculty of Science:

- ✚ General Degree Courses in Physics, Chemistry, Zoology, Botany and Mathematics.

4 SCOPE OF AUDIT

- ✚ To identify opportunities to sustainable development practices
- ✚ Assessment of environmental aspects within the facility
- ✚ Material management, savings and alternatives,
- ✚ Energy management and savings,
- ✚ Water management and economy of use,
- ✚ Waste generation, management, and disposal,
- ✚ Noise reduction, evaluation, and control,
- ✚ Air emissions and indoor air quality,
- ✚ Environmental emergency prevention and preparedness.

5 NAME OF AUDITEE

Sl. No.	Name of Auditee	Position/Department
1	Mr. Prabir Kumar Khatua	TIC
2	Dr. Shivdayal Chaudhari	IQAC Co-ordinator
3	Mr. Avishek Mistry	IQAC Member
4	Mr. Hafijul Haque	IQAC Member
5	Mr. Pabitra Biswas	IQAC Member

6 GREEN AUDIT & ITS OBJECTIVES

The green audits are tools that organizations use to identify their environmental impacts and assess their compliance with applicable laws and regulations, as well as with the expectations of their various stakeholders. It also serves as a means to identify opportunities to save money, enhance work quality, improves employee health, safety and morale, reduce liabilities and achieve other form of business values.

Green audit is a way to show that what type of carbon footprint are leaving on the planet by the organization, while also giving them ways to reduce it. Green audit involves the inspection of a organization to assess the total environmental impact of its activities, or of a particular product or a process. The main objectives of carrying out Green Audit are:

- ✓ To ensure development along with safeguarding the environment.
- ✓ To reduce energy consumption to foster environment.
- ✓ To ensure compliance with present legislations of the State and other legal requirements.
- ✓ To physically ensure installation of devices that reduce pollution and authentication of such devices by competent authority.
- ✓ To ensure optimum utilization of resources.
- ✓ To see whether provisions are made for liabilities arising out of unintentional pollution related damages and their compliance in cases so arose.
- ✓ To ensure that sufficient precaution has been taken by the organization to protect the employees of the organization from pollution resulting from it.
- ✓ To suggest improvement in the system to promote safe and clean environment.

Sagar Mahavidyalaya has already done internal green assessment and annual reports published for continual improvements. This audit report contains observations and recommendations for improvement of environmental consciousness.

7 METHODOLOGY

To perform green audit, the methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation, and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following areas to summarise the present status of environment management in the campus:

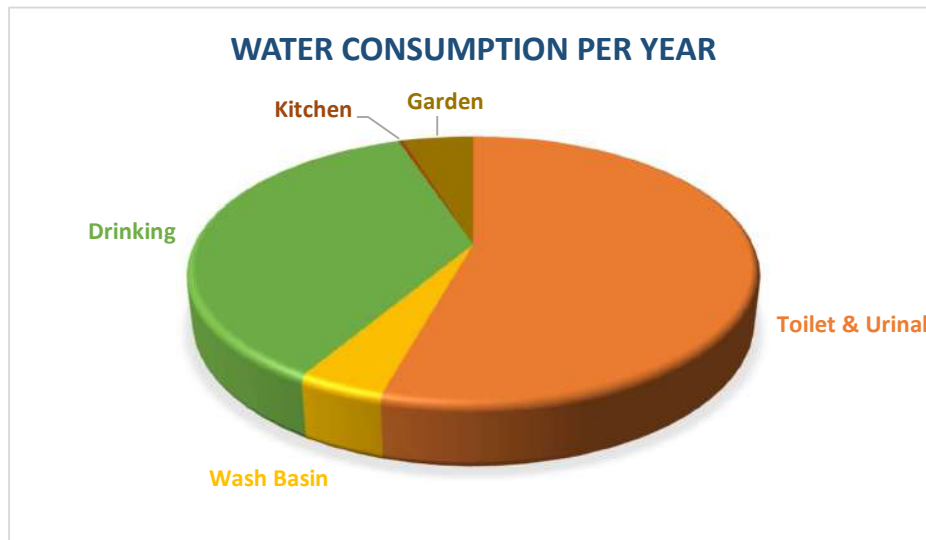
- ✚ Water Management
- ✚ Waste Management (solid, liquid & e-waste)
- ✚ Energy Management
- ✚ Management on Carbon Foot-print
- ✚ Ambient Air & Noise Monitoring
- ✚ Green area management

8 OBSERVATIONS & RECOMMENDATIONS

8.1 Water Conservation

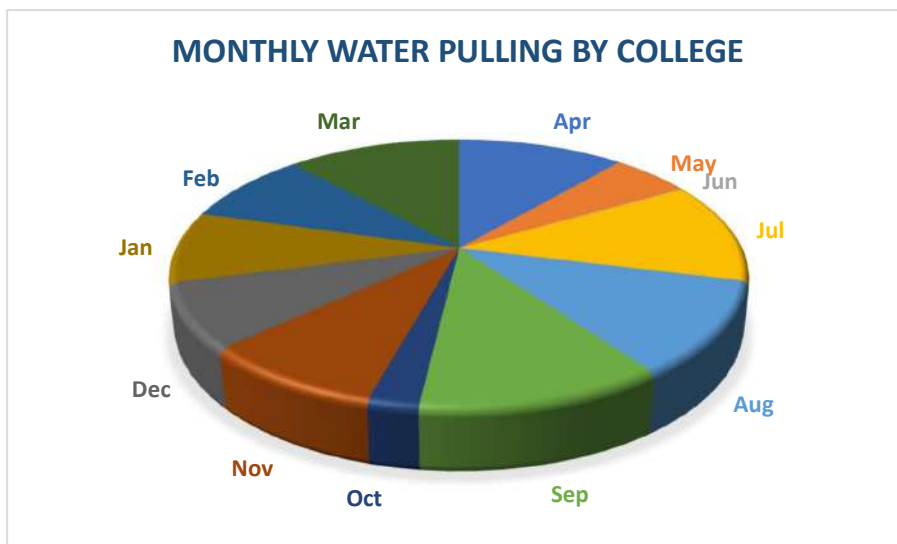
Water sources: 2 nos bore well, 2 no of motors are installed & 7 nos Water tank with 1000 ltr. capacity installed on roof for storage of water.

Sr. No.	Sector	Total day consumption (litre)	Total monthly consumption (litre)	Total yearly use (litre)
1	Toilet & Urinal	4500	112500	945000
2	Wash Basin	350	8750	73500
3	Drinking	3000	75000	630000
4	Kitchen	25	625	5250
5	Garden	70	700	84000
6	Total	7945	197575	1737750



Monthly water pulling at college:

Sl. No	Month	Water Pulling by pump (litre)
1	April	115000
2	May	55000
3	June	1000
4	July	125000
5	August	115000
6	September	120000
7	October	25000
8	November	90000
9	December	80000
10	January	88000
11	February	90000
12	March	120000
	Total	1024000



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Water Management Practices Adopted by the College:

- ✚ College adopted Rain Water Harvesting System to avoid wastage of rain water.
- ✚ College build Ground Water recharge. Rain water & Water overflowed by tank excreted into the pit by pipe.
- ✚ UV Plant installed by the institute for drinking purpose of students & staffs.
- ✚ College spread awareness "Save water" through poster at different places of college.
- ✚ College does not use ground water for gardening. Water taken from pond, inside the college.

Precautionary Measures

College should consider following precautionary measures for improving water management system.

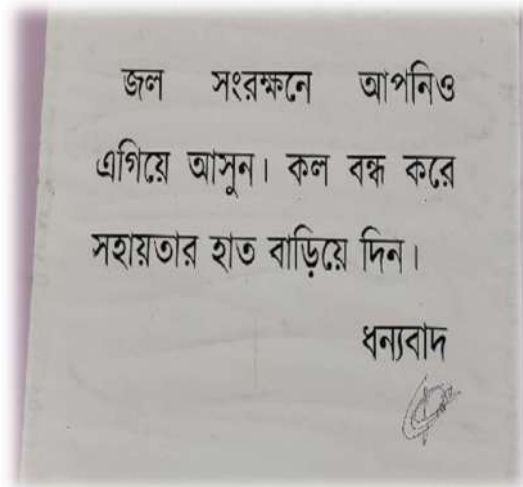
- ✚ Appoint One or Two dedicated staff/peons in the concerned section should take responsibility of monitoring the overflow of water tanks.
- ✚ Plumbing system should be checked monthly to reduce leakages and wastages of water.
- ✚ Encourage Water Conservation among students and Staffs through camp or activity.

Recommendations

- ✚ Minimize wastage of water and use of electricity during water filtration process,
- ✚ Ensure that equipment is used for water purifier are serviced quarterly.
- ✚ Gardens may be watered by the water of Rain harvesting tank to save the pond water.
- ✚ Gardens should be watered by using drip/sprinkler irrigation system to minimise the usage of water.
- ✚ Half Yearly 1 camp/Program should be done to spread awareness for water conservation.
- ✚ Drinking water should tested from recognized laboratory.



UV Plant



Awareness for Water Conservation

8.2 Waste Management (Waste Generation and Disposal)

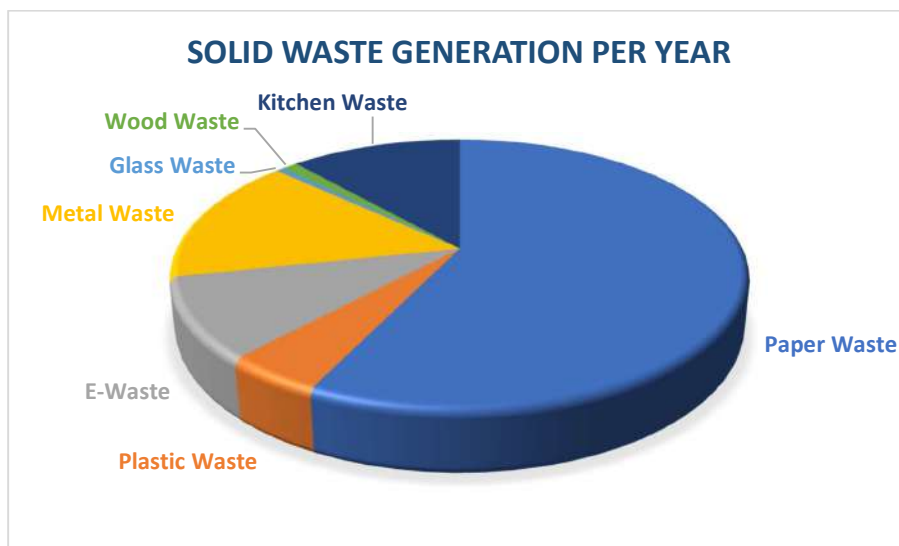
Waste management is an important part of Environment. It plays vital role for an eco-friendly & healthy campus. Regular basis waste collection makes the institute's environment clean and safe. In an institute, different types of wastes are generated, Like- Paper Waste, Food Waste, Wood Waste, Plastic Waste, E-Waste, Bio Medical Waste, Chemical Waste which collection and management are very difficult.

Sagar Mahavidyalaya allied with "Vital Waste", a recycling & waste management company to collect institutional waste & recycling it.

The following data provide the details of the waste generated and the disposal method adopted by the college.

Category wise solid waste generation at college (kg/year)

Category of waste	Paper waste	Plastic waste	E waste	Metal waste	Glass waste	Wood waste	Kitchen waste	Total waste kg/year
Quantity kg	109	9	18.5	29	1	2	22	191.5



Quantity of waste generated

- Biodegradable – 133 kg/year
- Non-biodegradable – 58.5 kg/year

Type of waste particulars and disposal method in college:

Types of waste	Particulars	Disposal method
E-Waste	Computers, electrical and electronic parts	Direct selling
Plastic waste	Pen, Refill, Plastic water bottles and other plastic containers, wrappers etc	Direct selling
Wood wastes	Damaged furniture	Direct Selling
Paper Waste	Banners, examination papers, paper plates, useless official papers	Direct Selling
Food Waste	Rotten Vegetables, Vegetables Peel, Rotten food, fruits	Collect in a particular place & burn it
Chemical wastes	Laboratory waste	Direct draining without treating
Wastewater	Washing, urinals, bathrooms	Septic tank then outside drain.
Glass waste	Broken glass wares from the labs	Direct selling

Waste Management Practices Adopted by the College:

- ✚ Waste bins are placed inside the college building.
- ✚ College is announced as “plastic free zone”.
- ✚ Institute signed agreement with an agency named “Vital Waste” to collect different kind of waste & recycling process.

Recommendation

- ✚ Recommended to placed bins outside the college building.
- ✚ Reduce the absolute amount of waste.
- ✚ Advised to check quality of chemical waste from laboratory then treat as per requirement and then drain to local drainage system.



Waste Bins are places inside the building

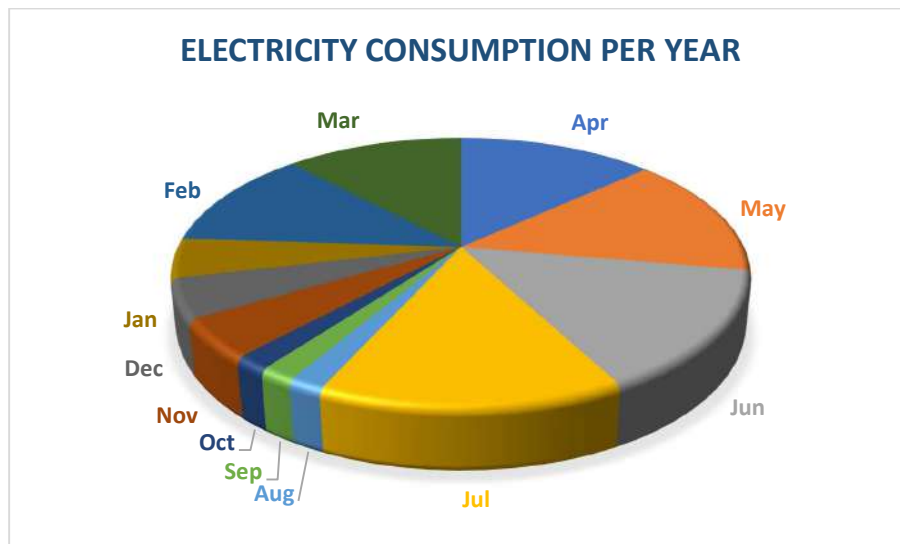
8.3 Energy management

Source of Power

Electricity Power at institute is supplied by WBSEDCL (West Bengal State Electricity Distribution Company Limited).

Electricity Consumption details

Sl. No	Month	Electric power consumption
1	April	1646.5
2	May	1808
3	June	1808.67
4	July	1808.33
5	August	210
6	September	210.5
7	October	212
8	November	588.33
9	December	588.67
10	January	588.67
11	February	1492.83
12	March	1491.83
	Total	12454.33



Fossil Fuel Power

Details of major Fuel consuming Machines in college campus

Sr. no	Equipment	Number/year	Consumption/year
1	LPG for Lab	6 cylinders	30 kg
2	LPG for canteen	40 cylinders	568 Kg
3	DG set	1 nos	240 ltr.

Energy Management Practices Adopted by the College:

- College replaced the damaged lights by LED lights.

Recommendation

- Appoint One or Two dedicated staff/peons in the concerned section should take responsibility of monitoring where electrical things are unnecessarily on.
- Replacement of all the no-LED lights to LED lights.
- Energy saving awareness spread among the students & staffs by displaying boards at appropriate place.
- Replacement of existing electric fans with BLDC fans can significantly reduce power consumption.
- To use Common or public Vehicle instead of individual vehicle to conserve fossil fuel
- Installation of solar power system.

8.4 Analysis of carbon footprint

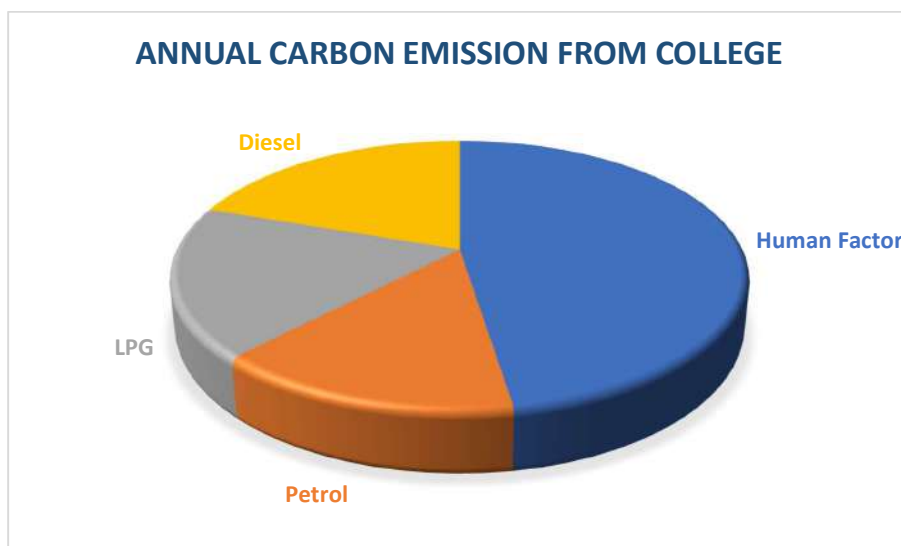
A carbon footprint is the total greenhouse gas (GHG) emissions caused by an individual, event, organization, service, place or product, expressed as carbon dioxide equivalent. It includes direct emissions, such as those that result from fossil-fuel combustion in manufacturing, heating, and transportation, as well as emissions required to produce the electricity associated with goods and services consumed. In addition, the carbon footprint concept also often includes the emissions of other greenhouse gases, such as methane, nitrous oxide, or chlorofluorocarbons (CFCs).

Release of carbon dioxide gas into the Earth's atmosphere through human activities is commonly known as carbon footprint. An understanding about the same of any institute where large number of anthropogenic activities are happening is important to assess the contribution of emission of gases that are responsible for Green House Effect. Auditing for carbon footprint of this College Campus was done using a detailed questionnaire, so that the impact of the community on global environment can be assessed.

Data required for carbon footprint

- No. of working days= 210
- College working time= 8 hours
- Total number of people per day (approx.) = 1500
- No. of two wheelers used= 11
- No. of LPG cylinders used in Labs= 6
- No. of LPG cylinders used in canteen= 12

Emission factor	Emission CO ₂	Annual emission CO ₂ (kg)
Human factor	1.043 kg/day	1564.5 kg
Petrol	2.3 kg / ltr.	483 kg
LPG	2.98 kg/ltr.	597.2 kg
Diesel	2.7 kg/ltr.	648 kg
Total	-	3292.7 kg



8.5 Ambient Air Management & Noise Monitoring

- ✚ No ambient air monitoring done by college. It is advised to start monitoring the quality of college air.
- ✚ Noise level is monitored by the displayed board organized by PCB (Pollution Control Board)
- ✚ Noise level showed at board was 56 dBA

8.6 Green Area Management

Campus is located in the vicinity of different types of flora, fauna, medicinal plants & seasonal flowering plants. Various tree plantation programs are being organized yearly at college campus and surrounding villages through NSS team. College celebrated "World Environment Day". This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among villagers.

They reserved an area for medicinal plants like: Swet chita, Ajwain, Aswagandha, Basak, ayapan, Vringaraj, Sweet Tulsi, Sorpogondha, Gurmur, Ghritokumari, Kalmegh, Lemon Grass, Sotomuli.

List of Trees in college campus:

Common Name	English Name	No. of Trees
Kalomegh Plant	Andrographis paniculata	24
Ghritokumari Plant	Aloe vera	34
Anantamul Plant	Hemidesmus imdicus	16
Gurmar Plant	Gymnema sylvestre	15
Golok tulsi	Ocimum tenuiflorum	26
Shewt Cheta	Plumbago zeylanica	17
Sorpogondha Plant	Rauvolfia serpentina	21
Lemon Grass Plant	Cymbopogon nardus	21
Sweet Tulsi Plant	Stevia rabaudiana Bertoni	33
Vringaraj Plant	Eclipta prostrata	28
Ayapan plant	Ayapana triplinervis	19
Basak Plant	Justicia adhatoda	26
Aswagandha Plant	Withania Somnifera	12
Ajwain Plant	Trachyspermum ammi	24
Sotomuli Plant	Asparagus racemosus	14
Golap plant	Rosa rubiginosa	4
Neem Tree	Azadirachta indica	2
Coconut Tree	Cocos nucifera	9
Banyan Tree	Ficus benghalensis	1
Chinarose Plant	Hibiscus rosa-sinensis	2
Banana Tree	Musa spp	11
Mango Tree	Mangifera indica	4
Java apple Tree	Syzygium samarangense	3
Papaya Tree	Carica papaya	2
Tomato Plant	Solanum lycopersicum	2
Dragon Fruit Plant	Hylocereus spp.	1
Horitoki Plant	Terminalia chebula Retz	1
Araucaria Tree	Araucaria araucana	10
Box wood	Buxus Sempervirens	24
Screw Pine	Pondonus veitchii	120
Water Canna	Canna glauca	55
Sayo Palm	Sycas revoluta	8
Areca Palm	Dypsis lutescens	32
Good Luck Plant	Cordyline fruticosa	130
Mauritius hemp	Fureraea foetida	12
Cactus Plant	Opantia dillenii	1
Guava Plant	Psidium guajava	1
Panthpadap Plant	Ravenala madagascariopsis	3

Chatim Tree	Alstonia scholaris	2
Seasonal Plant	-	24
Miscellaneous Plant	-	110

Green Management Practices Adopted by the College:

- ✚ College has 80% area reserved for plantation.
- ✚ College arranged camp twice or thrice in every year through NSS team.
- ✚ College Students celebrate “World Environmental Day” & plant trees on this day at inside and outside of the college.
- ✚ They deputed one dedicated person for watering plants.

Recommendations

- ✚ Use of recycled water shall be promoted in place of fresh water from pond.
- ✚ Review periodically the list of trees planted in the garden, allot numbers to the trees and keep records.
- ✚ Proper scientific names shall be assigned to the trees in accordance to the rule.
- ✚ Spread awareness of environmental sustainability through board displayed and take actions to ensure environmental sustainability.
- ✚ Constitute of a College Environmental Committee that will hold responsibility for the enactment, enforcement, and review of the Environmental Policy.
- ✚ College should conduct annual internal audit to review & action is taken on the basis of recommendation mentioned in audit report.
- ✚ Green library may be established.



Plantation Program by the College

9 GOOD POINTS OBSERVED IN THE INSTITUTE:

- ✚ College adopted Rain Water Harvesting System to avoid wastage of rain water.
- ✚ UV plant installed by college for drinking water.
- ✚ College spread awareness "Save water" through poster at different places of college
- ✚ They are very much concern about greenery. College has 80% area reserved for plantation.
- ✚ College built Ground water recharge for not to waste the water which is overflowed by tank & the rain water.
- ✚ College contract with "Vital Waste" for waste collection & recycling.
- ✚ "World Environment Day" celebrated by the college students & staffs.

10 OVERALL RECOMMENDATIONS

- ✚ Drinking water should tested from recognized laboratory.
- ✚ Advise to start monitoring the ambient air should be monitored.
- ✚ Gardens should be watered by using drip/sprinkler irrigation system to minimise water use.
- ✚ Advised to check quality of chemical waste from laboratory then treat as per requirement and then drain to local drainage system
- ✚ Gradual replacement of existing non-LED based lights to LEDs & existing electric fans with BLDC fans to reduce power consumption.
- ✚ Advise to Reuse of the recycled water shall be done instead of use of fresh water from pond.
- ✚ Review periodically the list of trees planted in the garden, allot numbers to the trees and keep records. Assign scientific names to the trees.
- ✚ Advised to displayed all emergency numbers, like - Nearest Police Station, Hospital, Fire Station & Ambulance.
- ✚ Locate an assembly point in case of any emergency incident
- ✚ College should conduct annual internal audit to review & action is taken on the basis of recommendation mentioned in audit report.

11 EMERGENCY PREPAREDENESS

- ✚ In case of any emergency incident, College staffs arrange ambulance & sent to the hospital which is located within 1 km near the college.
- ✚ There was no emergency preparedness procedure, neither any emergency numbers displayed at prominent locations.
- ✚ College can start doing mock drills with expert organizations to overcome possible environmental disaster in future
- ✚ Emergency numbers, like nearest police station, nearest hospital, ambulance, nearest fire brigade can be displayed at various strategic locations in the institute.

12 SOME PHOTOGRAPHS



Entrance of College



College Layout Plan



Well maintained Library



College announced as Tobacco free zone



Cycle Stand for Students



Fire Extinguishers are not placed properly

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Pond View of College



College Garden



College Building



Area Reserved for Medicinal Plants

13 CONCLUSIONS

This audit involved extensive consultation with all the teams, interactions with key personnel. Overall 80% of the campus is for landscaping. The audit has identified a few observations & some recommendations for making the campus premise more environment friendly. Few things that are important to initiate for better improvement. Overall, the College Campus is well-maintained from the environmental perspective. Report compiled & prepared by Mr. Devdepta Nandy.

14 REFERENCES:

- ❖ The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- ❖ ISO 14001:2015 standard.



****END OF REPORT****