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**POLICY DOCUMENT
ON
ENVIRONMENT
ENERGY &
GREEN CAMPUS**



CACHAR COLLEGE

TRUNK ROAD, SILCHAR, CACHAR ASSAM-788001

Attested

Principal

Cachar College, Silchar-1

COLLEGE PROFILE

CACHAR COLLEGE is a premier institute of higher learning in southern Assam. Established in 20 June 1960, the College is recognized by UGC under sections 2(f) and 12(b) of the UGC Act, 1956 and permanently affiliated to Assam University, Silchar since inception of the University in 1994. Prior to 1994, the College was affiliated to Gauhati University. The College offers Honours and General courses in the Three Year Degree Courses in Arts, Science and Commerce along with 10+2 (H.S) level courses for all the aforesaid streams.. With over two thousand intake capacity and excellent backing of the on campus support services this provincialised college under the Government of Assam is the natural destination for the students from all the three districts of Barak Valley of Assam and the neighbouring states of Manipur, Mizoram and Tripura. Located in the heart of the city of Silchar on more than 5 acre of land area Cachar College has eighteen departments, sixty-nine faculty members drawn from the best pool of the country and over thirty non-teaching support staff always ready to facilitate the academics.

Campus: The College building stands on 5.3 acre of land. The hostel campus is located separately at a walking distance from the main campus. The main campus houses academic and administrative wings along with all support services in a well-protected, demarcated by boundary wall premise. Both the main campus and the Women's Hostel is under 24x7 hours CCTV surveillance. Moreover the entire campus is also enabled with Wi-Fi facilities, E-Library enabled Central Library with sufficient number of books/journal and e-resources. Canteen service is also available within the main campus.

Women's Hostel: The Women's Hostel of the College has an accommodation for 50 boarders, having a two storied RCC building with spacious dining hall and kitchen as well as quarter for Hostel Superintendent, well protected by boundary wall.

Cachar College established a Meteorological Observatory, unique in the region, under COSIP Programme of UGC in 2004. The Observatory has the facility to record daily temperature, humidity, rainfall, intensity of sun shine. The processed data are being supplied regularly for academic (particularly for research purpose) and non-academic purposes at a nominal fee.

Green and Environment Management Policy:

- Plastic Free Campus
- Water and Energy Conservation
- Effective Waste Management System
- Clean and Green Campus, maintenance of hygiene
- Inculcate the environment friendly habits in all the stakeholders

The necessary initiatives for Environment /Energy /Green Audit at Cachar College, Silchar was adopted during 2019-2020 and following policies/strategies were framed. The objective of the audit is to effectively implement and maintain green practices and energy conservation in the College as well as Hostel campus. Green audit helps institution to define the environmental impact of its operations. It saves money, enhances work quality and improves employees' health and safety.

1. Formation of Internal Committee for Conduction Green Audit and Submission of Report:

ENVIRONMENT /ENERGY /GREEN AUDIT COMMITTEE (Academic Session 2020-21):

1. Dr. Nitu Debnath, Asstt. Professor, Dept. of Zoology _Jt. Coordinator, IQAC & Convenor
2. Dr. Avinoy Paul, Asstt. Professor & Head, Dept of Mathematics_ Jt. Coordinator, IQAC
3. Dr. Gopa Chakraborty, Associate Professor & Head, Dept. of Botany
4. Dr. Th. Pawlen Singha, Associate Professor & Head, Dept. of Chemistry
5. Dr. Biswajit Purkayastha, Associate Professor & Head, Dept. of Physics
6. Sri Kiriti Bhusan Dey, Associate Professor, Dept. of Chemistry
7. Dr. Mukul Kumar Baruah, Associate Professor, Dept. of Botany
8. Dr. Soma Acharjee, Asstt. Professor, Dept. of Bengali & Women's Hostel Superintendent
9. Dr. Shankar Sharma, Asstt. Professor & Head, Dept. of Hindi
10. Dr. Rahul Kanti Nath, Asstt. Professor, Dept. of Chemistry
11. Dr. Joyobrato Nath, Asstt. Professor, Dept. of Zoology
12. Miss Ankita Ghosh, Asstt. Professor, Dept. of Commerce

2. Initiatives for Assessment by Authorized External Agency:

The principal objectives of this Audit is to assess the environmental quality and the management strategies being implemented in Cachar College, Silchar in terms of Electricity and Energy consumption, adequacy of available water and its management , management of Hazardous Waste, E-Waste, Solid Waste etc. and Noise Environment of the College and allied fields. It also aims to explore the ameliorative measures to develop sustainability, scope of development of Greenery and other measures to develop the ecosystem. The report prepared by the internal committee covering all the said aspects is submitted to an Authorized External Agency for physical verification and necessary certification.

3. Initiatives for Documentation of Flora and Fauna of the Campus:

Biodiversity is the key indicator of the health of an ecosystem. Plant biodiversity is invaluable because it balances ecosystems, protects watersheds, mitigates erosion, moderates climate, and provides shelter for animals. Healthy ecosystems clean our water, purify our air, maintain our soil, regulate the climate, recycle nutrients and provide us with food. They provide raw materials and resources for medicines and other purposes. Further, in the era of human-animal conflict, it is very interesting that the College campus has a satisfactory faunal diversity, some of which are occasional visitors and quite uncommon in a busy and highly-dense city like Silchar. We are proud of having a green campus providing the natural habitat to these species, particularly due to the thick canopy of trees in the western side of the College.

4. Solid Waste Management System:

This parameter comprised of generation of wastes, segregation of degradable and non-degradable wastes and its judicious disposal. Solid waste regularly generated in the campus includes waste papers, food wastes, tea cups and dishes made of paper designed for one time use, canes of soft drinks, empty packaged drinking water plastic bottles, dust, fallen leaves etc. However, generation of construction wastes, glass wastes, wooden wastes, iron scrapes etc. are also frequent. The class rooms are regularly cleaned and cleared by the sweeping personnel engaged floor wise. The use of plastic is more or less banned in the College and canteen maintenance staffs are strictly instructed to serve food items in biodegradable cups/plates/containers etc. The nominal chemical wastes generated are being disposed with cautions and necessary dilution.

5. Disposal of Sanitary Napkins

Considering the welfare of the girl's students and the health and hygiene, Sanitary Napkin Destroying Machine (Model-NN/100) has been installed in the girls' common room.

6. Internal Electricity and Energy Audit:

This parameter implies energy consumption (mainly electricity), monitoring of energy used and sustainability, illumination load and fuels used. Sustainability in the use of energy is very important in context to carbon emission rate to the environment; hence energy conservation has been given top priority. Electricity power supply from APDCL is the prime source of energy in the College. Major share of energy is consumed in the Science and computer laboratories, College office, operation of appliances, Women's hostel. There is arrangement of continuous vigilance to avoid the wastage of electricity in the College in general and in the classrooms in particular. For illumination purpose use of LED lights are being preferred. For the purpose of uninterrupted power supply, a 62.5KVA Generator was installed in the College in the year 2011-12. LPG is used in the Chemistry laboratory (8-9 cylinders required per year), College canteen and in the hostel.

7. Internal Water Audit:

Source of water in the main campus of the College as well as in the hostel is the PHE supply water. The college having an underground reservoir of more than 20000 liter capacity (Volume 758 Cubic Feet approx) having pump house on its roof. There are a total of nine overhead reservoirs with 1000 liter capacity of each. There is 24 hours water availability facility in every part of the college. Wastage of water is always discouraged and promotion of sustainability.

The waste water generated are being drained off through well planned drainage system surrounding the campus and ultimately passed into the municipal sewer.

8. Hazardous Waste Audit:

Generation of Hazardous waste is more or less very much negligible. Traces of hazardous wastes generated from the laboratory works of Chemistry are being disposed into the drainage with necessary dilution and utmost care considering not be detrimental to the environment. The traditional dissection of various specimens in the course curricula of Zoology are now-a-days banned in context to conservation strategy, only fish specimens are dissected in the Zoology and Industrial Fish and Fisheries laboratories. These are being disposed with necessary care.

9. E-Waste Audit:

With the advancement of lifestyles and technologies as well as expansion of the digital world, the E-Waste poses a great threat to the deterioration of environmental quality. Indiscriminate disposal of E-Waste endanger the biota to a great extent. In Cachar College, there is provision of storage and auction of the discarded computer peripherals, electronic instruments and others.

10. Noise Environment:

Due to locational drawback, the NH37 (Trunk Road) runs through the northern as well as eastern side of the college and due to rushing of heavy traffic through the road, a noisy environment prevailed in the classrooms of northern side as well as in the administrative block. To minimize the disturbance the district traffic authorities were approached a number of times to declare the area as "No Honking Zone", but the matter is yet to be materialized. The southern part of the college is bordered by the DSA Stadium and noisy environment prevailed frequently in the campus during sports events organized by DSA. Further during fairs, popularly known as "Gandhi Mela" during the months of February and March every year, the decibel of unwanted noise in the campus environment increased to a great extent contributed by loudspeakers used in the Gandhi Mela.

11. Obnoxious Smell:

Frequent emergence of obnoxious Smell from the SLRM project of Municipal Waste management set up by District Administration in the abandoned BRTF office campus in the western side of the college polluting the air quality and displeased the stakeholders to a large extent.

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FUTURE MANAGEMENT PLAN:

Management of Air and Water quality as well as overall environment is tedious job particularly in a higher educational institution like Cachar College, Silchar where students get admission from multi-cultural, multi-lingual facets of the society. In spite of so many obstacles, the college authority always has a tendency to maintain a clean, healthy and hygienic environment within the campus with active cooperation from the teaching and non-teaching staffs and students as well. There is no limit for management of environment; however, the college authority has a number of future plans to augment the overall environment as depicted below:

- ❖ Installation of Solar panel to reduce the consumption electricity of Administrative office and Departments.
- ❖ Wastage of electric power will be prevented by installing Master Switches for fans and lights for each room including all classrooms.
- ❖ Minimizing the use of Air Conditioners
- ❖ Quest for alternative source of energy (other than Solar energy).
- ❖ Ground water recharge initiative (Bore well Recharge Technique).
- ❖ Establishment of Botanical/Herbal garden in the Women's Hostel Campus of Cachar College.
- ❖ Plantation drives will be undertaken in both main campus and Women's Hostel campus to plant more and more flowering and fruiting trees.
- ❖ Installation of plastic bottles crusher.
- ❖ Installation of Electric Incineration Units both at Main Campus and Women's Hostel Campus for speedy solid-waste disposal.
- ❖ Promote awareness programmes on environmental issues and measures.

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