

**GREEN AUDIT**  
**Bajali College, 2016-17**  
**(Executive Summary)**

*[Prepared by 'M2M Consulting Consortium Private Limited, New Delhi, an ISO 9001-2015 Certified Company]*

Green Audit can be defined as systematic identification, quantification, recording, reporting & analysis of components of environmental diversity. The 'Green Audit' aims to analyse environmental practices within and outside the college campus, which will have an impact on the eco-friendly ambience. The main purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institute as per the latest legal framework practiced internationally and considering prevailing legal set-up in the Union of India.

The Government of India has laid out various policies, guidelines, acts and regulations for the safeguard and conservation of environment. Eighteen existing acts, rules and policies have been considered while preparing this green audit report of Bajali College along with inputs from various experts from multiple sectors including ecologist, environmentalist and total quality management expert.

The Bajali College campus is declared '**Plastic Free Zone**'. It is a major initiative to control potential adverse environmental impact. Both the DG sets of the college campus obtained NOC from the concerned authority. Other machines in use within the campus have least impact to air environment. In absence of any major industries in the close vicinity of the Bajali College, vehicular movements from the National Highway (NH) and road connecting Pathsala town to the NH are identified source of air & noise pollution. Massive plantation recommended specific to infrastructures within the college campus along with suggestive air & noise management plan with prospective implementation.

Drainage system of the college needs to improve especially to counter waterlogging during monsoon season near boys' hostel. A comprehensive drainage system with a single outlet to the existing natural drainage system has been proposed to include in the 'Master Plan'. The sewage system recommended improvement by installation of ETP before releasing the used water drained from hostels, canteen, departments and laboratories by proper drainage pattern. Especially waste water from the chemical laboratory needs treatment before releasing to the natural drainage system to avoid contamination.

A 30KL water treatment plan is functioning in the college to meet water demand from all the departments, hostels, canteen, labs and other establishments of the college. Water filters are

provided at important points including all the hostels, canteen, departments and common utility points such as common room etc. **Rainwater harvesting system** is one of the best environmentally sound best practices in the Bajali College.

Municipal Solid Waste (MSW) production is highest among all the solid waste generated from various activities inside the college. The major contributor to the MSW from the institute is in the form of kitchen waste of canteen and hostels. These wastes are bio-degradable in nature. Considering the issue, the college management has installed a vermicomposting facility in the college campus which is another sound environmental practice in the college campus. Stationary and e-waste disposed through authorized vendors by the college management. Various chemicals are in use for practical experiments of the chemistry laboratory. Out of those chemicals there are numbers chemicals categorized as hazardous chemicals as per the list of hazardous chemicals. These concentrated chemicals get diluted during the process of experiments. But adverse impact of the entire process can't be ignored. Hence, proper handling and storage of hazardous chemicals shall be strictly implemented with legitimate use ensuring general laboratory safety manual.

The college management is concerned for power saving. The practice of closing down instruments, fan, bulbs, computers, printers etc. is in practice among all the teachers and students. Conversion process of all the bulbs into LED is undergoing with a motto to save energy. The college is processing to install solar panels in the college campus in near future. The college has a health care centre with timely basic health inspection by government health practitioner. Fire-fighting arrangement has been installed in the college to counter adverse situation.

The Bajali College campus is gifted with significant green cover. There are more than 280 numbers of major trees counted in the campus along with climbers & seasonal/ornamental flowers. However, considering the future environmental scenario, plantation with scientific and systematic approach has been recommended for the entire college campus. A botanical garden with special consideration to medicinal and economical plant has been proposed within the campus under the supervision of botany department.

Strict monitor of carbon foot print carried out by the college management by testing of machines in use including NOC for both the DG sets and proper maintain of register book at entrance. . The College has been observing awareness programs like World Environment Day, World Tourism Day, Vanmahotsava and Cleanliness Drive twice in a year and World Wildlife Week annually in the College campus. The NSS wing of the college has also adopted village and various awareness program conducted in the fringe area of the Bajali College.

The internal green audit committee has strong role to maintain existing sound environmental practices and to implement green management plan.