

# **Green Campus of Bharati College**

We believe that a clean, green and pollution free environment provides a pristine backdrop for an effective learning experience. Bharati College, University of Delhi has therefore left no more stone unturned in the development of a green ecosystem to provide enrichment to the mind, heart and soul of the students. All the avenues and roads within the college are adorned with tall trees bearing emerald green leaves and beautiful flowers to create a homogenous feeling amongst everyone within the campus. We do sapling plantation by the students for adducible greenery within the campus and also to inculcate awareness towards nature in their minds. Although campus is located in residential area, presence of green belt including gardens, lawns and an herbal garden has considerably reduced noise pollution in the campus. College building area has academic old and new building and wheeling to green operations/ infrastructures including roof-top solar PV system. Bharati College has Rainwater Harvesting System (RWH) and Biocomposting unit. For the treatment of sanitary wastewater generated in the campus, College has conceived a Sewage Treatment Plant (STP) in the College building area in future.

Bharati College has herbal garden with different seasonal herbs, medicinal plants and also some zones have been developed as kitchen garden for cultivation of vegetables. We have biocompost unit where we use the organic waste from the canteen and dead plants, leaves and produce organic manure which is utilised in the campus without using chemical fertilizers.

Bharati College is constantly taking green initiatives by way of environment awareness campaigns and energy conservation based activities and encourage all stakeholders to strictly follow the Green campus policy.

The pivots of Green Policy are:

1. Solid waste management by Segregation of Waste
2. Biocomposting
3. E-Waste management
4. Paper waste recycling
5. Proper disposal of hazardous waste and biomedical waste (negligible)
6. Rain water Harvesting
7. Optimum uses of energy by energy conservation, energy efficiency equipments and installation of solar energy (sanctioned)
8. Swachh Bharat Mission-Cleanliness drive
9. Ban of single use plastics and tobacco free zone

Bharati College is known as a green campus in the local community. The stakeholders always wish to initiate sustainable alternatives on campus to maintain it. In addition to that, the committed members are working towards creating a sense of awareness with respect to human impact on the environment and thereby change the attitude of students towards sustainability. Several initiatives have been taken which aimed at making the campus green by planting different species of trees around the campus to promote biodiversity and ecological balance. The campus has been mapped under different areas for various plant species. There are also provisions for a herbarium and medicinal plants. Different plant species attract different kinds of insects, birds and other fauna, thus enriching the biodiversity of the area. About 200 trees including herbs, medicinal plants, fruit and flower trees, and ornamental plants have been selected in the initial phase and planting is restricted due to paucity of space. Students have been involved in plantation drive on different significant days who are supporting the plantation activities nearby the College Campus. The College has established a “Green Corridor” along the Delhi National Capital Region involving other similar institutions, and interested students and community members.

### **Landscaping:**

College campus has 5 gardens with front garden, central garden, one herbal garden, one medicinal garden and one kitchen garden. College has green belt area, having 100 variety of plants including 20 tree species, 50 shrubs and around 1000 potted plants. List of few plants present in the campus is given below. Plantation improves aesthetics and helps as a buffer in reducing noise level, maintaining temperature of the area. Herbal garden has different sections in which specific types of plants planted with respect to their medicinal importance. As per the findings of internal green audit conducted by College, large trees include Peepal (*Ficus religiosa*), Goolar (*Ficus racemose*), Pilkhan (*Ficus virens*), Ashok (*Saraca asoca*), Jamun (*Syzygium cumini*), Mango (*Mangifera indica*), Kadamb (*Neolamarckia cadamba*), Bael (*Aegle marmelos*), Gulmohar (*Delonix regia*), Champa (*Magnolia champaca*), Palash (*Butea monosperma*), Guava (*Psidium guajava*), Shisham (*Dalbergia sissoo*), Citrus lemon, Kanak Champa (*Pterospermum acerifolium*), Semal (*Bombax ceiba*) and Neem (*Azadirachta indica*) etc. Few trees were identified and confirmed during virtual tour. Fruit bearing trees attract variety of insects like wasps, bees, ants and beetles thus increasing the biodiversity. The variety of tree species provide different habitat to variety of bird and other species in the ecosystem. Gardens are managed by 5 staff members.

Eco-friendly classrooms with daylight design and proper ventilation

a) Classrooms, laboratories, offices, library, hostel, etc. have high ceiling, wide doors and large windows in new building

b) Building is designed in such a way that corridors and classrooms receive ample of sunlight. Curtains are provided for laboratory windows to avoid glare. Natural light in the classrooms was about 70-85 lux.

c) Ventilation in classrooms is facilitated with windows and fans. Cross ventilation is facilitated due to large windows on both sides of some classrooms. Air conditioners are used in offices, computer laboratories, Staff common room and library.

### **National Digital Library:**

Being an academic institution, waste paper is one of the main solid wastes generated in the premises. College has taken steps to minimise and avoid paper usage.

1. Prints and photocopies are taken on both sides of the paper to avoid excess paper usage. Rather than photocopy, digitalisation (scanning) is practised.

2. College has two floor library with 20,000+ books; journals, magazines, newspapers are also available in the library. Library has an e-book facility having e-journals, and e- books available online through different portals such as INFLIBNET, Computer rooms are provided in the library to access online services.

3. Internal notices and communications are through e-mail/ SMS. College has a Learning Management System (LMS) where notices are sent, exam results are displayed and attendance is recorded digitally for last 3 years.

4. College has signed a MoU with Green O'Tech Paper Recycling Ltd which is collecting all the paper waste and in return do plantation of native trees and provide office items like note pads and biodegradable pens.