

G.T. ROAD, PANIPAT-132103 (HARYANA)

An ISO 9001:2015 & ISO 14001: 2015 Certified Premier Co-Educational Institute (Affiliated to Kurukshetra University, Kurukshetra)

7.1.3 On Campus and Beyond the campus environmental promotion activities

1. Under NSS Unit

2021-22	I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2020-21	Session 2020-2021NSS – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2019-20	session19-20nss – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2018-19	Session18-19nss – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2017-18	Session17-18nss – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)

2. Under Sanskarshala Club

2021-22	sanskarshala Club – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2020-21	sanskarshala Club – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2019-20	Activities-of-Sanskarshala-Club-Session-2019-20.pdf (ibpgcollegepanipat.ac.in)

3. Under NCC Unit

2021-22	Session 2021-22 – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2020-21	CamScanner 03-25-2022 15.21 (ibpgcollegepanipat.ac.in)
2019-20	Session19-20ncc – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2018-19	Session18-19ncc – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)
2017-18	Session17-18ncc – I.B. (PG) COLLEGE (ibpgcollegepanipat.ac.in)



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Clean & Green Energy Initiatives taken by the College

• To reduce the carbon emission, solar power plant of capacity 50kW has been installed in the college.

Solar power is a renewable energy source, meaning it is derived from sunlight, which is abundant and inexhaustible. By harnessing solar energy, the college reduces its reliance on fossil fuels, promoting environmental sustainability. Solar power generation produces no greenhouse gases emissions, air pollutants, or harmful by-products, unlike traditional fossil fuel-based energy sources. It helps mitigate the college's carbon footprint, contributing to a cleaner and greener environment.

Once the solar power plant is installed, we have significantly reduced the college's electricity bills. While there is an initial investment, the long-term savings on electricity expenses can be substantial, allowing funds to be allocated to other essential educational needs. The presence of a solar power plant on the college campus serves as an educational tool. It offers opportunities for students and faculty to learn about renewable energy technologies, sustainability, and environmental conservation, promoting a culture of eco-consciousness.

Overall, installing a solar power plant in a college aligns with the institution's commitment to sustainability, responsible environmental stewardship, and providing a valuable learning experience for students and staff. It exemplifies the college's dedication to creating a greener and more resilient campus while contributing to a sustainable future.



(Dr. Ajay Kumar Garg)

Principal



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• Regular Tree Plantation drives are being organized. Around 2000 trees have been planted during last 5 years in various locations of Panipat including the Village adopted by the College.

Participating in tree plantation drives helps students develop a deeper understanding of environmental issues and the importance of conservation. It fosters a sense of responsibility towards the environment and encourages eco-conscious behaviour.

Tree plantation drives provide a practical and hands-on learning experience for students. They get to actively engage in planting and caring for trees, gaining knowledge about different tree species, planting techniques, and environmental practices.

Tree plantation drives often involve teamwork and collaboration among students. It encourages them to work together towards a common goal, promoting unity and camaraderie among peers.

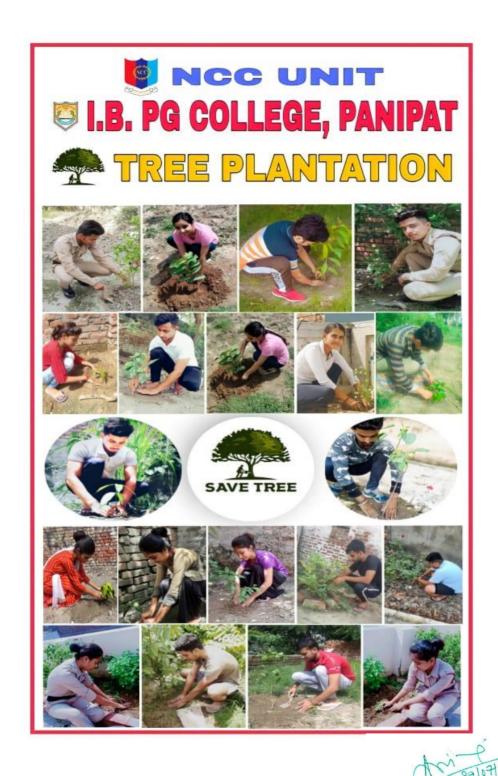
An increase in the number of trees on the college campus enhances the aesthetic appeal and creates a greener and more pleasant environment. It improves the overall ambiance of the college, positively impacting everyone's well-being. We have promoting tree plantation to our Students who have actively participated in making their surrounding green and to reduce the pollution load in the industrial city. As our campus is not that huge we do not have much space to plant trees here but this has not refrained us from making our students aware of the significance of green initiative.





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• Ordinary lights have been replaced by LED lights to reduce consumption of electricity.

Replacing ordinary lights with LED lights in the college offers numerous benefits, making it a practical and environmentally responsible choice. Here are the key reasons why our college had considered making this transition:

Energy Efficiency: LED lights are highly energy-efficient and consume significantly less electricity than traditional incandescent or fluorescent lights. This reduction in energy consumption leads to substantial cost savings on the college's electricity bills.

Cost Savings: While LED lights may have a higher upfront cost, they have a longer lifespan, which means fewer replacements and lower maintenance expenses over time.

Environmental Impact: LED lights have a lower carbon footprint compared to conventional lighting options.

Improved Lighting Quality: LED lights provide better quality and more uniform illumination compared to traditional lighting options. This enhances visibility in classrooms, corridors, and other areas on the college campus, creating a conducive environment for learning and activities.

Therefore, by replacing ordinary lights with LED lights, our college demonstrates its commitment to energy conservation, cost efficiency, and sustainable practices. It sets an example for students and the community, encouraging them to embrace energy-efficient technologies and contribute to a greener future.





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• 3 stars – 5 stars Air Conditioning systems are installed in the college to minimize the electricity consumption.

5-star rated ACs are highly energy-efficient, consuming significantly less electricity compared to lower-rated models. This leads to substantial cost savings on electricity bills for the college.

Though 5-star rated ACs may have a higher initial cost, their energy efficiency translates into long-term cost-effectiveness. The reduced energy consumption results in lower operating expenses over the ACs' lifespan.

By using 5-star rated ACs, the college reduces its carbon footprint and contributes to environmental sustainability. Lower energy consumption means lower greenhouse gas emissions, supporting the college's eco-friendly initiatives.

5-star rated ACs are designed to provide optimal cooling performance while using minimal energy. They efficiently maintain comfortable indoor temperatures, ensuring a conducive learning and working environment for students and staff. There may be some old machines retained where the use is very limited but we are planning to replace all those with energy efficient ones.



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• College has its own dedicated transformer & power factor to reduce transmission losses.

The Decision to get our own transformer was based on careful evaluation, including factors like power requirements, load analysis, cost-benefit analysis, and consultation with electrical experts. The reasons have been:

Increased Electrical Load: As our college is expanding and growing day-by-day, the electrical load is increasing significantly. A standard electrical supply might not be sufficient to meet the increased demand for electricity, necessitating the installation of a dedicated transformer to handle the load

Unreliable Power Supply: In our region, the local power supply is unstable or prone to frequent outages. By purchasing our own transformer, the college can have greater control over its power supply, ensuring a stable and uninterrupted electricity flow.

Load Distribution: Our college campus has multiple buildings and facilities with varying power requirements. Having own transformer allows the college to distribute the electrical load more efficiently across different areas, optimizing the power supply.

Voltage Regulation: Transformers can help regulate voltage levels, ensuring that the electrical equipment and appliances on the campus receive the correct voltage for optimal performance and longevity.



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• Operational E-Waste collection centre.

E-waste contains hazardous materials such as lead, mercury, cadmium, and other toxic substances. If not disposed of properly, these harmful elements can leach into the soil and water, contaminating the environment and posing a risk to human health. E-waste, if not handled correctly, can pose health and safety risks to the college community. Exposure to toxic materials can lead to health issues for students, faculty, staff, and maintenance workers. Proper e-waste disposal provides an opportunity for colleges to educate their students about the importance of responsible waste management and the environmental impacts of e-waste.

As an institute of higher learning, our College has a responsibility to demonstrate environmental responsibility and sustainability. Proper e-waste disposal showcases our college's commitment to eco-friendly practices and fosters a positive reputation within the community.





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 Separate dustbins have been placed at different places to segregate the solid waste.

The segregation of waste is necessary in colleges for several important reasons, each contributing to environmental protection, efficient waste management, and promoting sustainable practices. Here are the key reasons why waste segregation is crucial in college:

Environmental Protection: Waste segregation helps prevent the contamination of recyclable materials with non-recyclable or hazardous waste. By separating different types of waste at the source, the potential for environmental pollution and damage is significantly reduced.

Efficient Recycling: Segregating waste into categories like paper, plastic, metal, and organic waste makes recycling more efficient. Clean and properly sorted recyclables are easier for recycling facilities to process, increasing the likelihood of successful recycling.

Waste Minimization: Segregation allows for the identification of waste streams that can be minimized or eliminated through better practices, leading to reduced overall waste generation in the college.







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• Vermicomposting unit has been developed in the college.

Use of a vermi-compost plant in college offers numerous benefits and serves as an excellent sustainable waste management solution. Here are some of the ways a vermi compost plant can be beneficial for a college:

Organic Waste Management: Colleges generate a significant amount of organic waste, such as food scraps from canteens, garden waste, and other biodegradable materials. Our vermi compost unit is efficiently processing organic waste and convert it into nutrient-rich compost.

Waste Reduction: By diverting organic waste from landfills, a vermi compost plant helps reduce the volume of waste that would otherwise contribute to environmental pollution and greenhouse gas emissions.

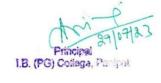
Sustainable Landscaping: The nutrient-rich vermi compost produced being used in college gardens and landscaping projects. It enhances soil fertility, promotes plant growth, and reduces the need for chemical fertilizers.





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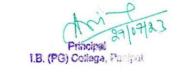






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• R.O. Waste water is collected in an underground tank and used for gardening and watering the plants.

Installing an R.O. (Reverse Osmosis) water plant in a college can be highly beneficial, providing safe and clean drinking water for the college community. We have installed R.O. System with sufficient capacity in the College considering the following advantages:

Safe Drinking Water: R.O. water plants are designed to remove impurities, contaminants, and harmful substances from the water, ensuring that the drinking water provided to students, faculty, and staff is safe and free from pollutants.

Improved Water Quality: R.O. technology effectively filters out various waterborne pathogens, heavy metals, pesticides, and other pollutants, resulting in improved water quality and taste.

Health Benefits: Access to clean and purified water promotes better health among students and staff. It reduces the risk of waterborne diseases and ensures that the college community stays hydrated with safe water.

Sustainability: Installing an R.O. water plant encourages a reduction in the usage of single-use plastic water bottles. By providing safe drinking water on campus, the college can discourage the purchase of bottled water and contribute to environmental sustainability.





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Other Energy Conservation initiative:

The institution clearly understands the significance of water conservation, environmental protection and energy conservation. These all aspects are very crucial for sustainable development. Following initiatives are worth mentioning here:

Water Conservation Initiative: Water is most essential commodity for life. The campus has ample water usage facilities in the form of drinking water, water for sanitary and garden usage as well as for lavatory uses, Wherever an outlet is provided we have a clear and concise statement "Please turn off the Taps after Use" for the user to make proper use of this useful resource. This practice will make the students and other users aware of not wasting this precious gift of nature.







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Energy Conservation Initiative: The most important form of energy we use in the campus is electricity. Even after adopting all the necessary steps to conserve and minimize the loss of electricity, we have gone one step ahead and have spread the message among our students and faculty to help us in saving electricity. On Every switch Board of the college the energy saving message is displayed: "SWITCH OFF THE LIGHTS AND FANS WHEN NOT IN USE".



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