7.2 Two Best Practices

1. Clean Environment – Our Resolution.

2. Rain Water Harvesting- Water Conservation.

The objectives of a clean environment are-

1. Provide a healthy environment to the students.
2. Plastic-Free Campus.
3. Waste and maintain a clean campus.

Context- Our college campus is serene and picturesque with a few beautiful green gardens, trees and plants, and greenery around. There is a substantial green cover of 3 acres. It supports approx. 400 trees that provide shade and cut the pollution from the surroundings with their green cover. Some of the saplings varieties display an astonishing diversity of trees, with more than 100 species of native and exotic trees growing on the campus.

Trees are a part of the history of the college, as well as an indisputable part of the sentiment that students and faculty attach to the institution. The green campus concept is aimed at enabling the college to redefine its environmental culture and develop new paradigms by creating sustainable solutions to the environmental, social, and economic needs of mankind. With this in mind, tree planting is an ongoing process on campus to enhance greenery. The institution takes great pride in its green cover and takes efforts to preserve them. A team of gardeners takes care of the periodic manuring, and pruning of the trees.

An area of 3 acres was designated for greenery on campus. Nearly 100 species of plants were planted with the specific purpose of beautifying the campus. Many plants like Calotropis, Castor Annual, and Perineal Nectar plants like Lantana, Solidago, Wedelia, Alternanthera, Ageratum, Marigold, and Cosmos are planted.

The layout of the green space pervades in all directions of the campus. The pathway is designed to have a beautiful sight from the main gate to the sports ground. Students of the Department of Fine Arts have painted the wall along the pathway, adding to the color of the chosen area.

Practice- Its primary task with the campus's instructional policies is environment development. Environmental conscious administration, the management, and the students of the college look after the environment carefully. There is a proper process of solid waste management adopted by the college. There are dustbins located on various positions like girls' lawns, corridors, near labs, etc. All students along with teachers are advised to put the waste in dustbins. All academic buildings, labs, and surroundings are cleaned every day and sweepers separate waste and dispose accordingly. The office is advised to work paperless, single side used paper is reused for writing and printing. The college has adopted a proper

mechanism to dispose of all E-waste. Also, we have, liquid waste management, borewell/open well recharge, rainwater harvesting, and, maintenance of water bodies/distribution systems on the campus.

Green campus initiatives include restricted entry of automobiles, battery-powered vehicles, pedestrian-friendly pathways, a ban on the use of plastic, landscapes with trees and plants, use of LED.

Problem Encountered-

RGGCW is a quality-conscious college. It provides a clean environment that improves the health and well-being of the students. The college believes that it is important for us to be involved in environmental issues therefore we engage the campus community and take care of the environment and surroundings. The College makes all the necessary efforts to involve the students, faculty, and staff in "Clean, Green, and Eco-Friendly Initiatives" by designating a policy document to run this drive to protect the environment. With its green campus effort, it safeguards its environment and maintains a pollution-free campus.

Evidence of success-

- The green campus developed by the college helps not only to save the environment but also adds to the beauty of the campus.
- Besides providing sheds to people, the plants are used for scientific studies. College can save a lot of money on electricity bills due above initiatives and is evidenced by past electricity bills.
- Water conservation methods employed are helping to maintain gardens and campus green and eco-friendly.
- The college has displayed various slogans on environmental awareness on the campus to propagate the green campaign successfully. These slogans encourage students to protect plants and keep the environment eco-friendly.
- The use of paper cups and plates is encouraged and the use of plastic bags and plastic tea cups is banned. Plastic-free culture is imbibed.
- Less paper communication and correspondence are practiced routinely. It encourages and practices communication through e-mails and social media.
- Activities under 'Swatch Bharat Abhiyan' are a key component of all the community work being done by NSS, NCC, and Green Society volunteers of the college.
- Staff Members are encouraged to participate in the cleanliness drive on the college campus.
- The events are organized such as poster making and slogan making, essay writing, poetic recitation, and street plays on "Swatch Bharat.

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BHIWANI

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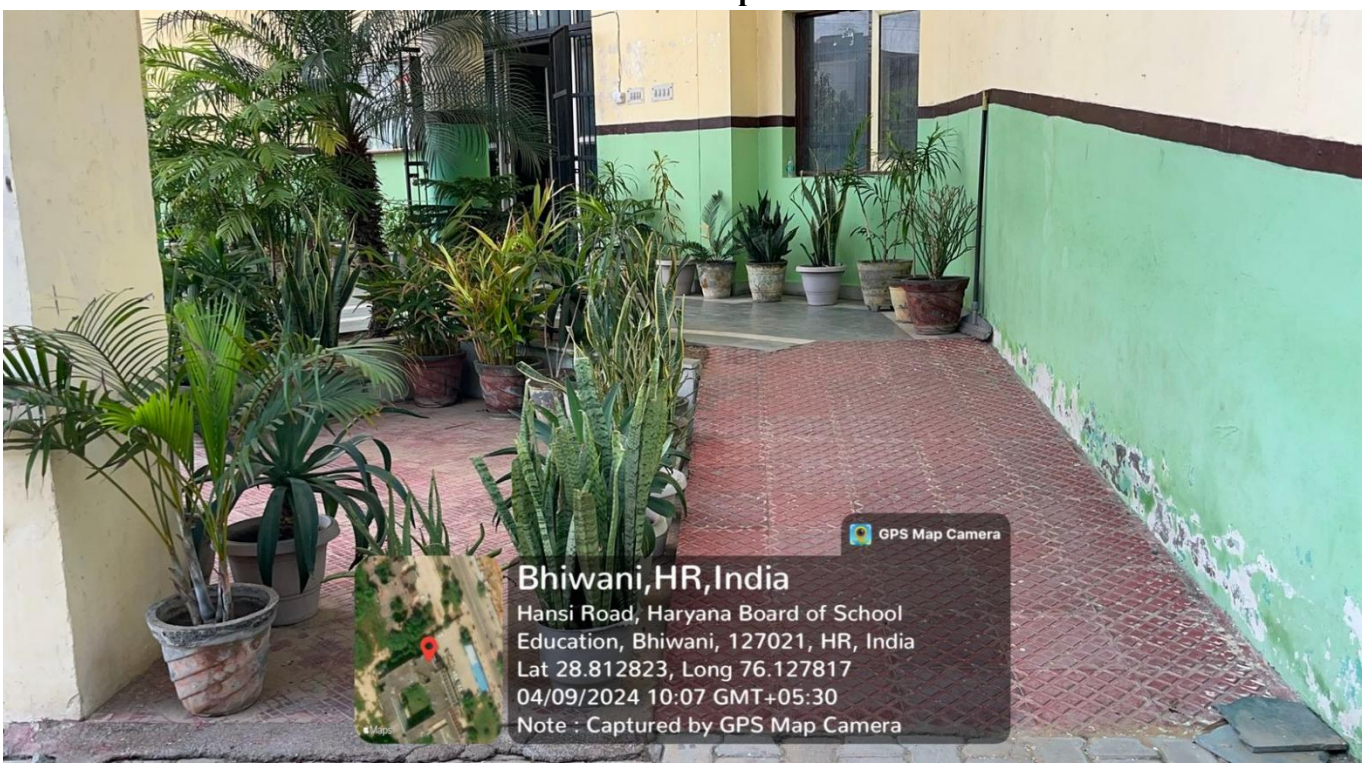
Tree in Campus



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Solid Waste Management

2. Title of the Practice: Water Conservation

Objectives of the practice:

• To satisfy the rising water demand.

• To lessen runoff that clogs the drain.

• To increase the table of underground water.

• To lessen pollution of groundwater, etc.

• To save rainwater that falls as rain on the earth.

• To end the "water shortage" that occurs in the summer.

• To store the water for gardening & washing purposes.

• To prevent the negative impact brought on by a flood during the "rainy season" as a result of incorrect rainwater storage.

• To guarantee a steady supply of water for our students' labs.

The Context:

Water scarcity is a major issue for both urban and rural communities around the world. Groundwater and surface water resources have been overused, which has led to a decline in water quality. This has been caused by urbanization, industrial growth, and an increase in agricultural fields and productivity. Due to uneven rainfall, traditional water sources, such as wells, rivers, reservoirs, etc., cannot meet the water demand. While a new water source is being investigated by the rainwater gathering system. The Man moved away from nature and perhaps overlooked the significance of natural resources as he became more and more reliant on technology. He neglected to conserve the priceless water, which is another word for life,in his march toward power.

There is no way to increase the amount of fresh water on this planet. So it is necessary tolook for a substitute method. Rainwater collection is one such technique. Utilizing rainwateris the goal, coming close to the idea of protecting the environment. At the RGGCW campusin Bhiwani, the Rooftop Rain Water Harvesting (RRWH) system functions as a backup watersupply. We are maintaining the rainwater collection system from the three teaching blocks' rooftop catchment area. The study's findings indicate that the current RRWH system canstore 400000 liters of water in tanks. The system in many ways serves the institution's variouswater needs.

The Practice:

Our three teaching blocks' rooftop area now has an RRWH system installed. The system's four main components are as follows: 1. A roof covering about 80,000 square meters. 2. Downpipe tying the roof and filter together 3. A rainy filter that removes all dust. 4. Four underground storage tanks, each with a capacity of 100,000 liters. Pumps are used to transfer rainwater from underground storage tanks back to an overhead tank installed on the roof. Except for the taps in the labs and the washbasins in the classroom buildings, all toilet flush tanks have a direct connection to this storage tank. Additionally, the storage tanks areconnected so that rainwater may be used to hydrate our priceless trees and plants.

Even though our institution has a connection to a sufficient municipal water supply, we still want to avoid using the high-quality treated water intended for drinking purposes for non-consumptive tasks like flushing toilets, cleaning utensils, watering plants, etc. To pump water to the overhead tank on the roof, a pipe (the pump set's suction pipe) is put into the bottom of the storage tank just a few inches above the bottom of the tank.

We noticed some dust gathering at the bottom of the storage tanks, even though pumping is done from a level a few inches above the bottom of the tank. When water is pushed to the overhead tank, the majority of these particles tend to group and do not move. We hand remove the muck and dust from storage tanks while keeping an eye on hygienic practices.

Evidence of success

The practice has been put into place to meet the institution's numerous units' daily water supply needs. After the RRWH System was installed in the institution, everything that was negative was changed. Water-related demands and complaints from students and staff members have been reduced or resolved. The Institution boasts a well-developed infrastructure of parks, gardens, lawns, trees, and other flora. With precipitation soaking the soil, the nutrients and minerals existing inside are freed so that the roots can readily absorb them and permit fast growth. precipitation thus liberates important materials in the soil for plants to thrive. As a result, we can maintain our great tradition of being a green campus thanks to the RRWH system, an alternate source of water saving.

Problems encountered

When there is little or no rainfall for an extended length of time, managing water resources and reservoirs might be challenging, but we nevertheless make an effort to manage appropriately. Sometimes we get issues with "birds & trees droppings" on the rooftops, which necessitates routine roof cleanings and upkeep, resulting in ongoing costs.

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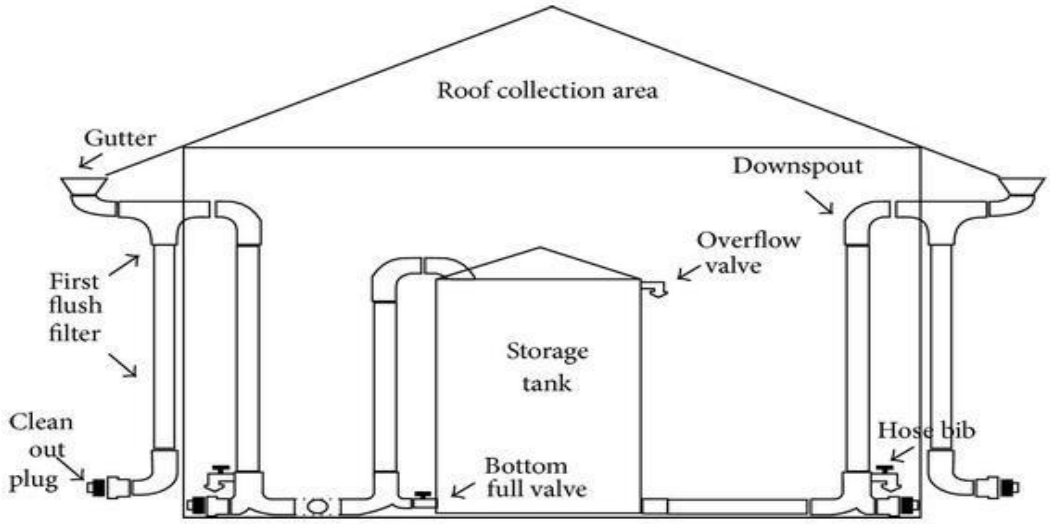

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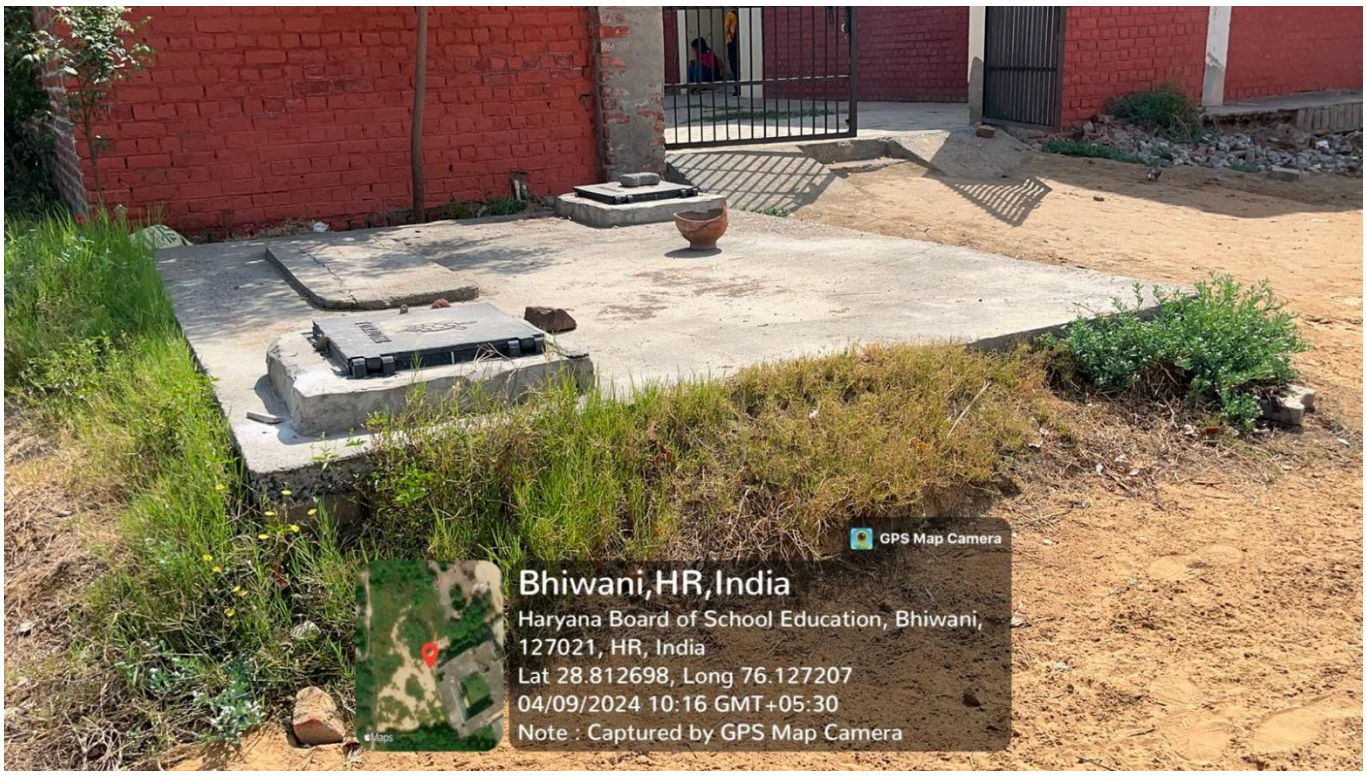

Borewell/open well

Principal,