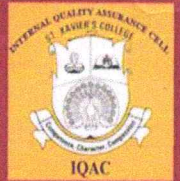




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7.1 Institutional Values and Social Responsibilities

7.1.2 Facilities and Initiatives for:

7.1.2 (C) WATER CONSERVATION

Water Conservation Measures
(Report With Geo Tagged Photos)

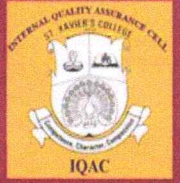

Principal

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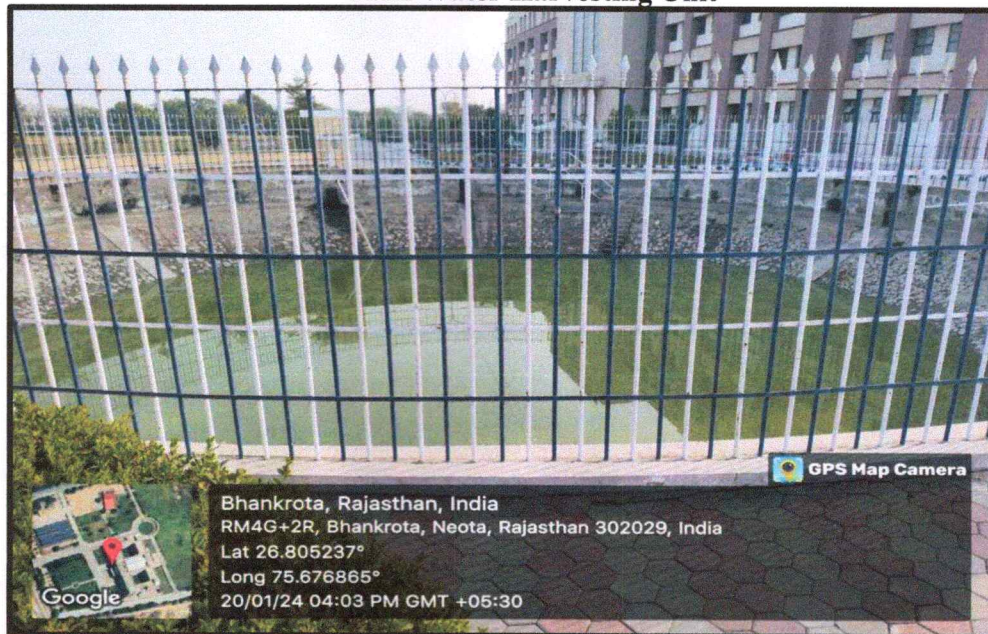


Natural rain water harvesting system in St. Xavier's College, Jaipur

The Universal Society of Jesus has incorporated "Caring for the Mother Earth" as one of the four Universal Apostolic Preferences (UAP) aligning with Sustainable Development Goals (SDGs). **Water conservation and protection of the environment have always been part of Xavier's apostolic priority.** St. Xavier's College campus can be described as "**Eco-Friendly Green Oasis**".

Though this part of the country does not enjoy much rainfall, the college **campus remains lush green** and beautiful throughout the year because of the **scientific and natural water harvesting system**. The lawn pathways and roads protected with curve stones or cemented elevation are designed in such a way to direct rain water to the main harvesting tank. When there is excess rainfall the water is allowed to exit through the chambers and through the drainage canal to the main water harvesting tank. There are gates to monitor the water inflow to the tank so as to avoid any flooding situation during the rainy season. Only the excess water is directed to flow out through the outlets and thus minimum rain water is wasted.

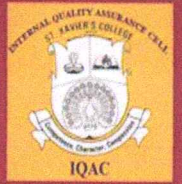
Rain Water Harvesting Unit



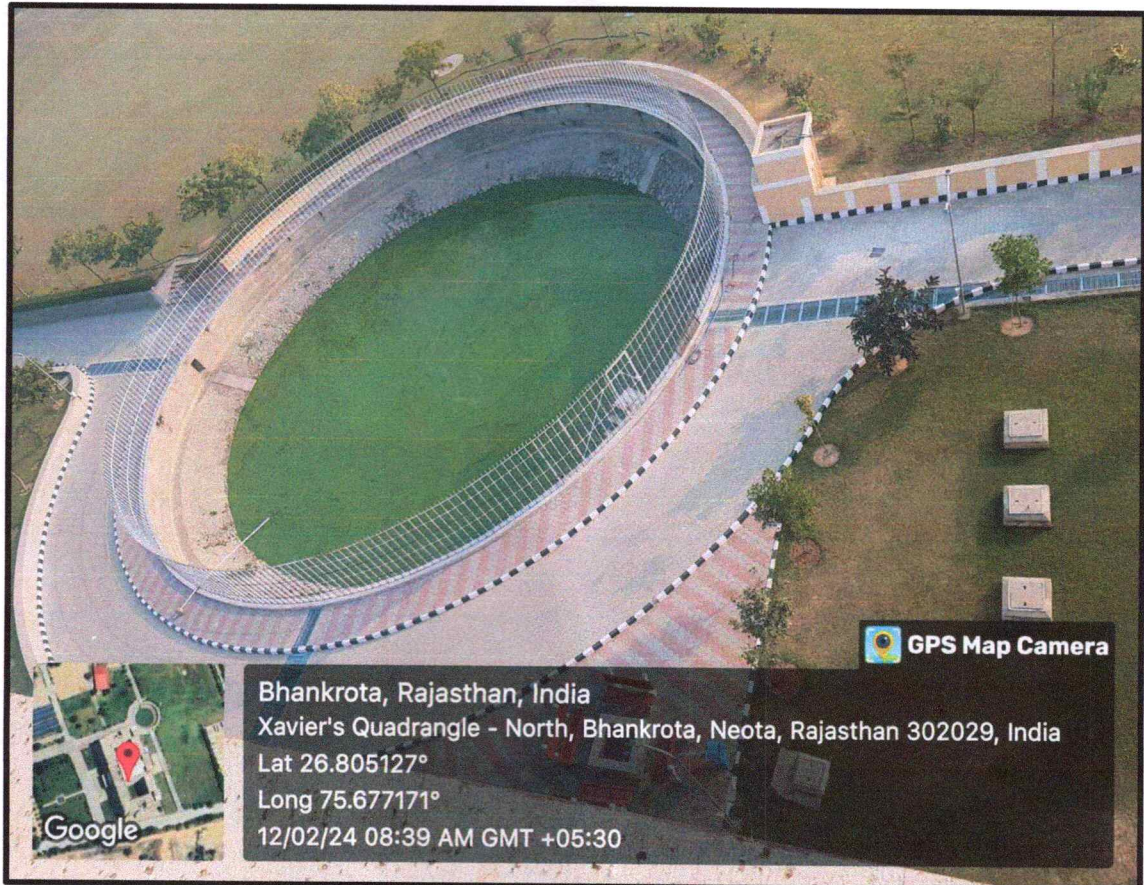


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Well Planned Water Harvesting Unit with 18 Lakh Ltr. Capacity



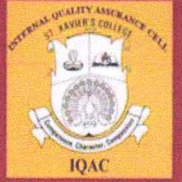
7.1.2 Water Harvesting System

This in-built water harvesting unit also caters to conserve the water loss due to overflow from tanks and excessive amounts of water during the rain. This **recycled water** is used to **irrigate the green campus**. Thus, moving towards this goal a well-planned water harvesting unit of **18 Lakh Ltr** capacity is set up in the campus.



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The water harvesting unit is well connected to all chambers that are connected with all the places where overflow of water may occur. The planning of the water harvesting channels are done strategically to allow the out flow of water in the water harvesting well.

- **Inlet Chambers:** These are the points where rainwater enters the water harvesting system. Inlet chambers are strategically placed to capture rainfall effectively.
- **Overflow Chambers:** In case of excessive rainfall or when the storage capacity is reached, overflow chambers are designed to redirect excess water, preventing waterlogging and potential damage.

Connecting all the chambers in a water harvesting unit involves a thoughtful design to maximize the system's effectiveness and sustainability in managing rainwater. The overall connection design is aimed at optimizing the efficiency of the water harvesting unit, ensuring that rainwater is effectively captured, stored, and utilized.

The aim of a water harvesting system on campus encompass various environmental and sustainable objectives

- ❖ **Natural water recharging** using innovative landscape designing: The large open area of the college grounds and the campus allows the seepage of the rainwater thus, recharging the underground water table. Use of curved stones facilitates water seepage, maintaining underground water levels. **More than 50% of rainfall is efficiently recharged** during monsoon season.
- ❖ Excess water directed through chambers into a water harvesting well.
- ❖ Harvested water **repurposed for irrigation, promoting sustainability.**
- ❖ Managed water flow with gates to **prevent waterlogging.**
- ❖ Installing water harvesting systems aligns with the broader goal of environmental responsibility, showcasing the institution's commitment to sustainable practices.

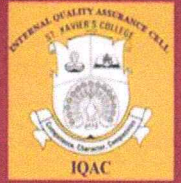
Principal
St. Xavier's College, Jaipur
Nevta-Mahapura Road, Jaipur





St. Xavier's College Jaipur

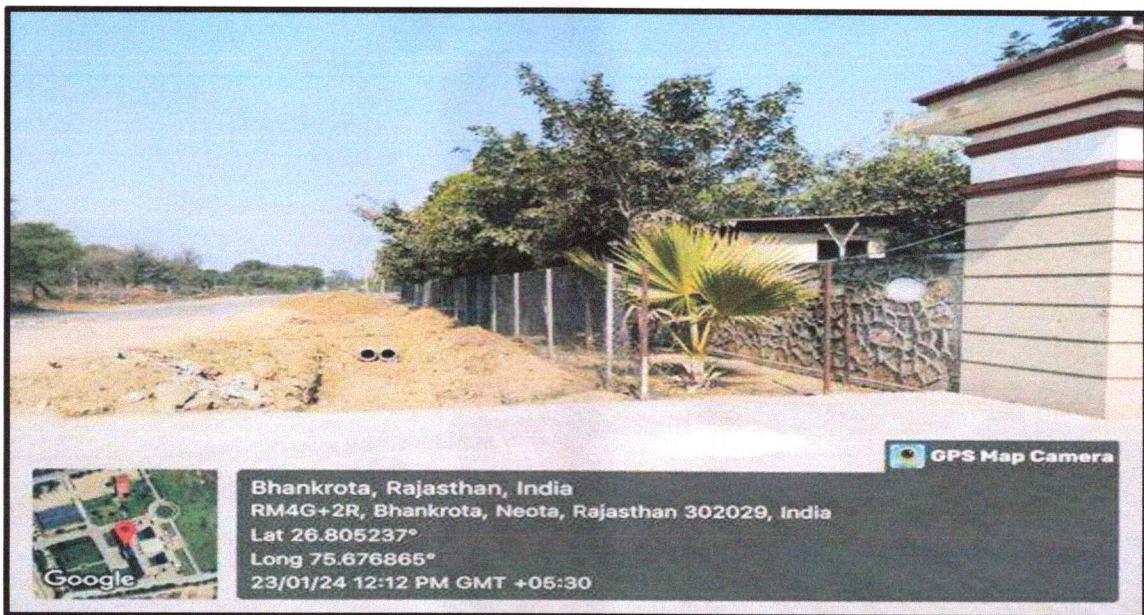
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Channelizing Excessive Water through Pipes and Drainage System



7.1.2 Water Harvesting Unit- Drainage System

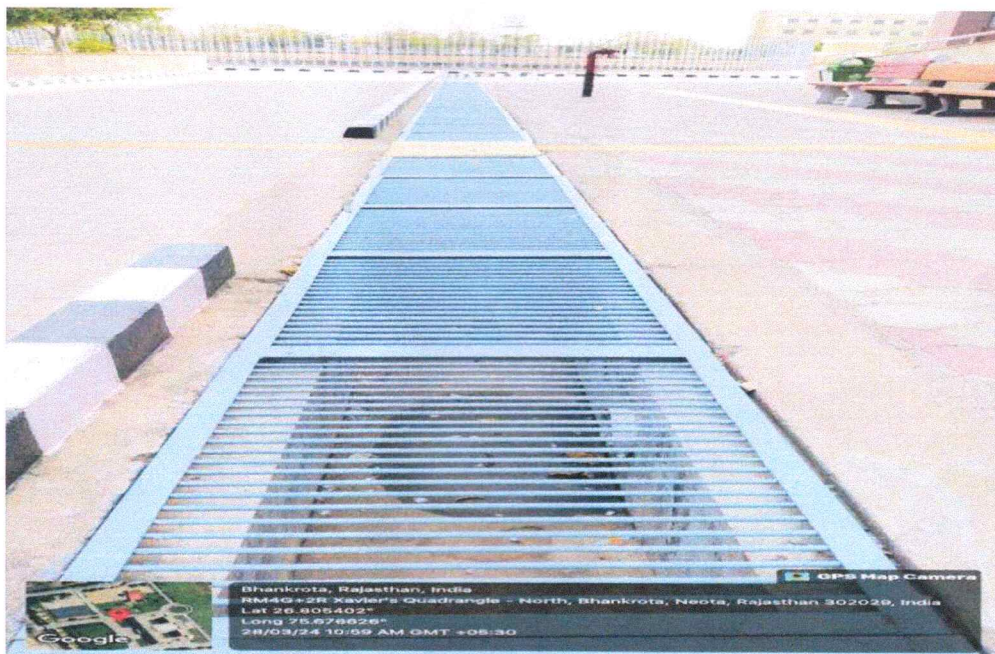
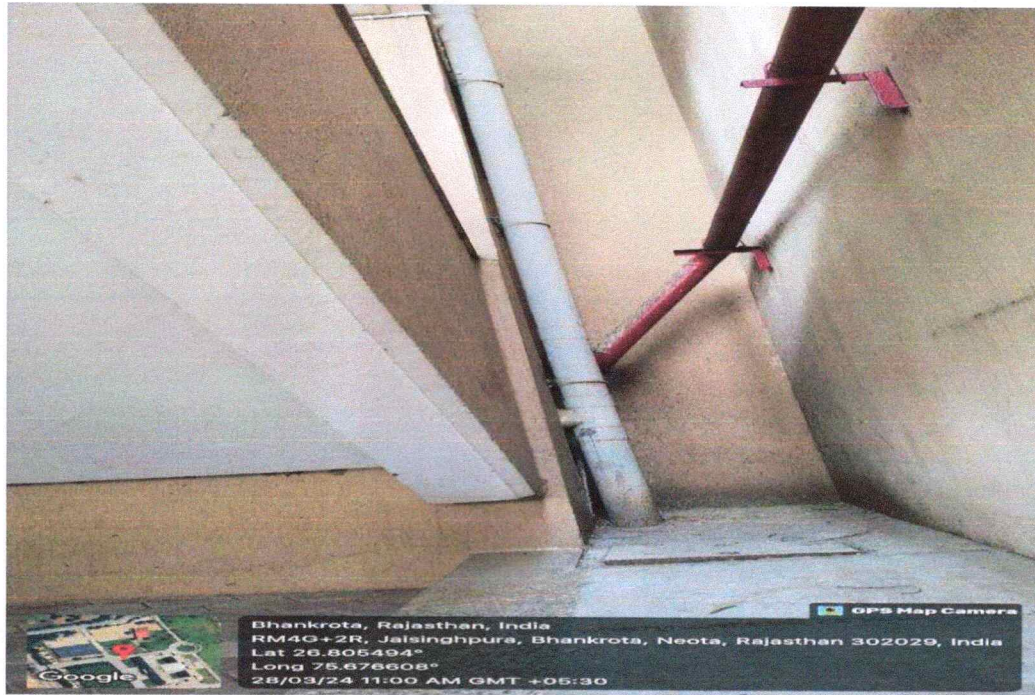
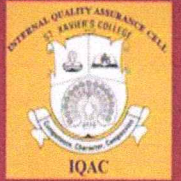


7.1.2 Water Drainage & Conservation System



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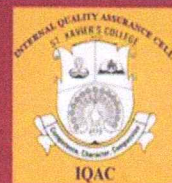


7.1.2 Water Drainage & Conservation system



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7.1.2 Regular Cleaning and Maintenance of Drainage System

A **rainwater conservation** system efficiently **channels excess water** through pipes, directing it to a nearby pond. This sustainable approach minimizes runoff, replenishes groundwater, and supports **local ecosystems**. By harnessing nature's resources, communities can mitigate flooding while **preserving precious water** reserves for future use.



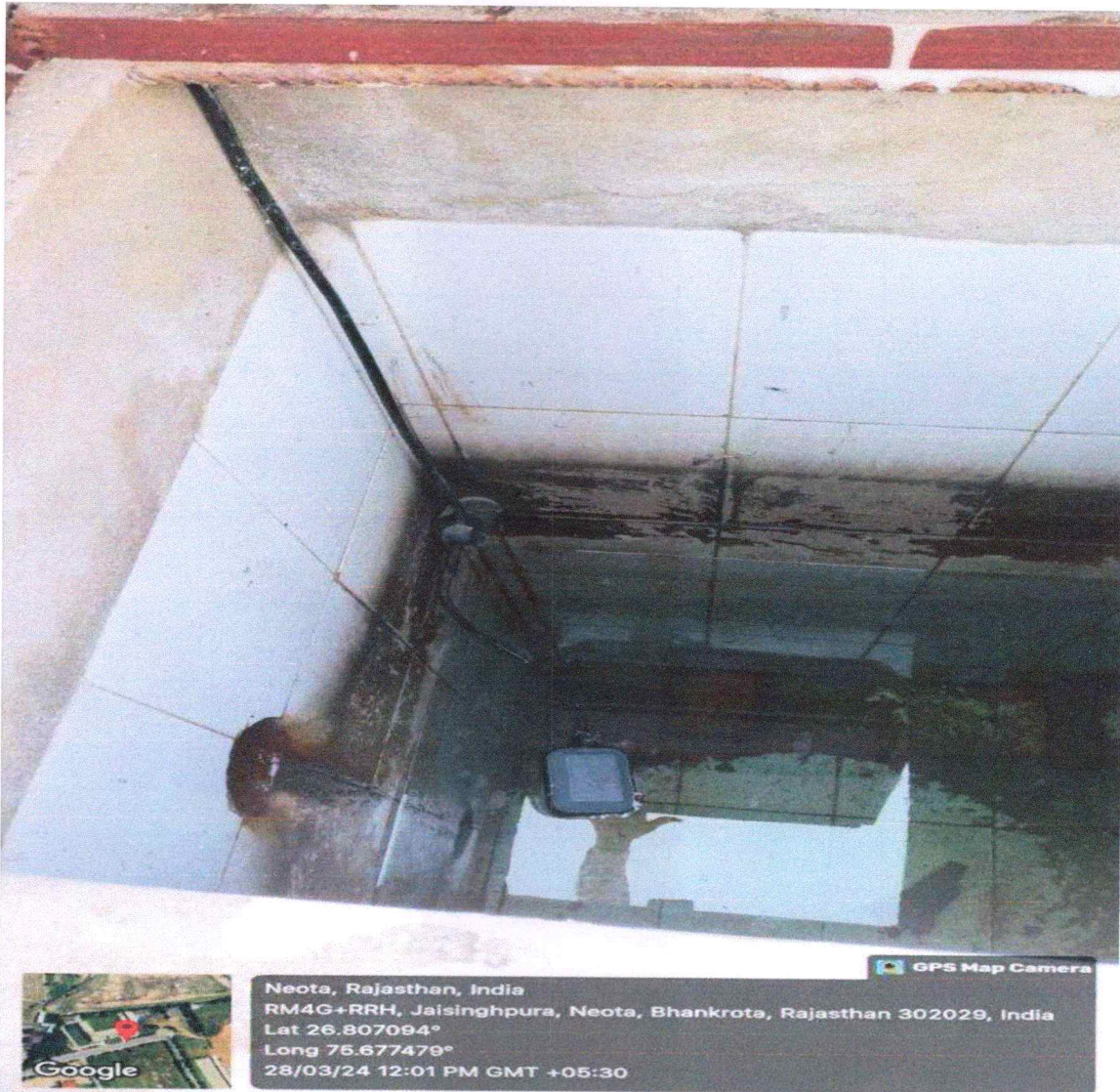
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Water Tank Sensors

A water tank sensor is capable of detecting water levels and turns on or off the water pump automatically.

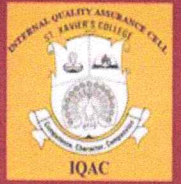


7.1.2 Automated Water Tank Sensors



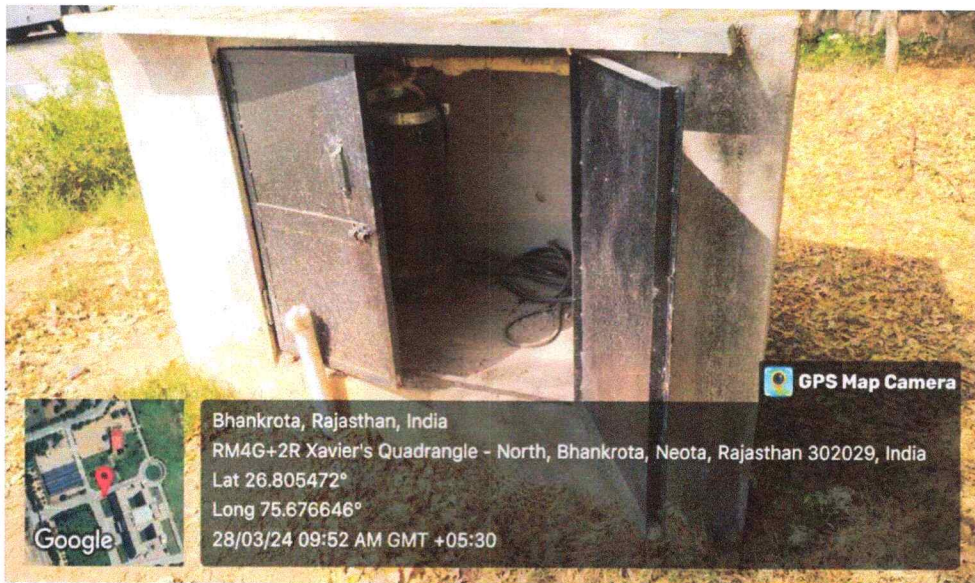
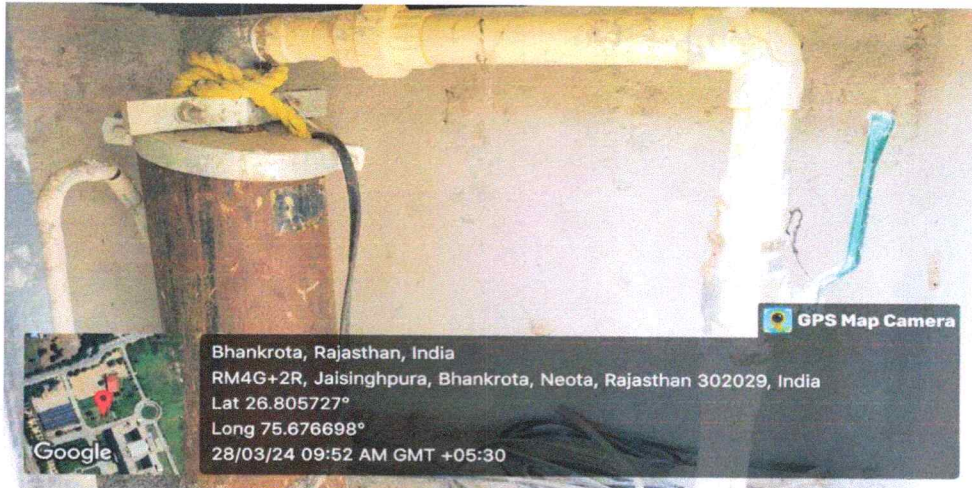
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Borewell

A borewell in our college campus promotes water conservation efforts, fosters environmental stewardship, and enhances the resilience of the institution's water supply infrastructure. It serves several purposes related to water conservation like being an alternative source of water supply, conserves freshwater, groundwater recharging and maintaining ground water levels, irrigation purpose and even for research and educational purpose fostering awareness and understanding of water-related issues.

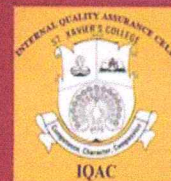


7.1.2 Borewell



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Manual Auto Shut off Taps & Automatic Sensor Taps

In our college, the integration of auto shut-off taps and sensor-equipped taps stands as a cornerstone in our water conservation endeavors. These fixtures play a crucial role in curbing unnecessary water usage and fostering more efficient water management practices. By automatically shutting off and activating only when required, they effectively minimize wastage. Moreover, their presence cultivates a culture of water conservation among users, prompting individuals to adopt mindful water practices that extend beyond the college environment. Thus, the combination of accurate sensing technology and instant shut-off mechanisms makes them highly efficient in conserving water compared to traditional manual taps.

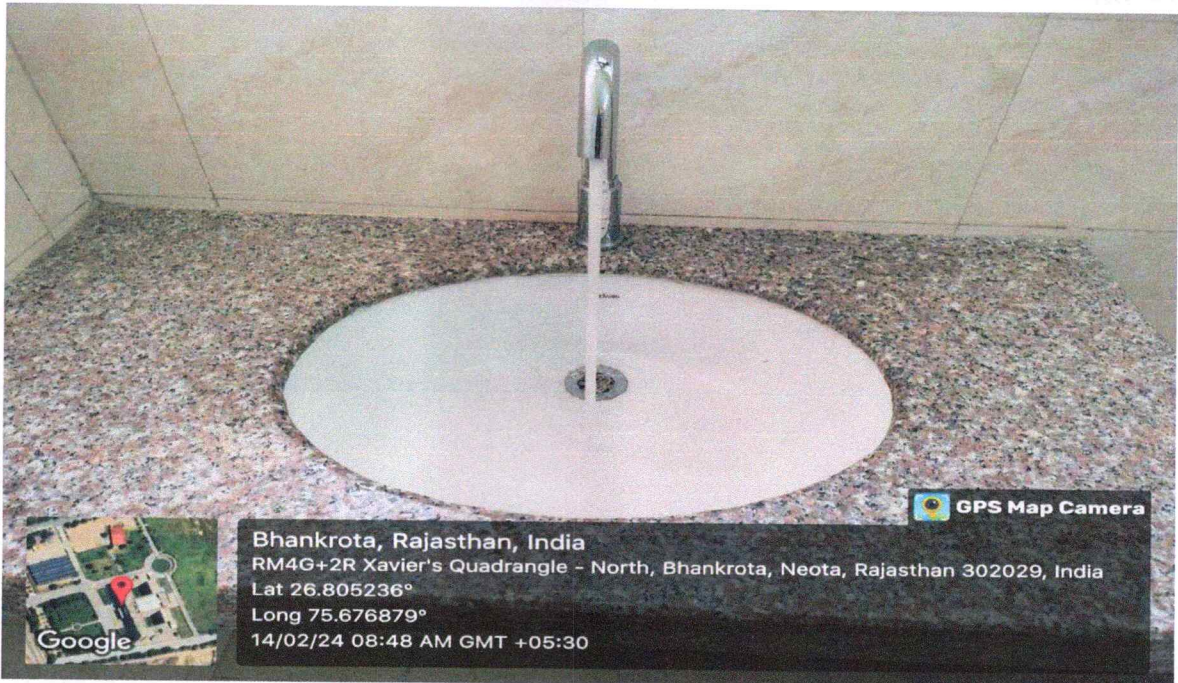
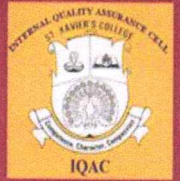


7.1.2 Manual Auto Shut Taps with Conservation Messages

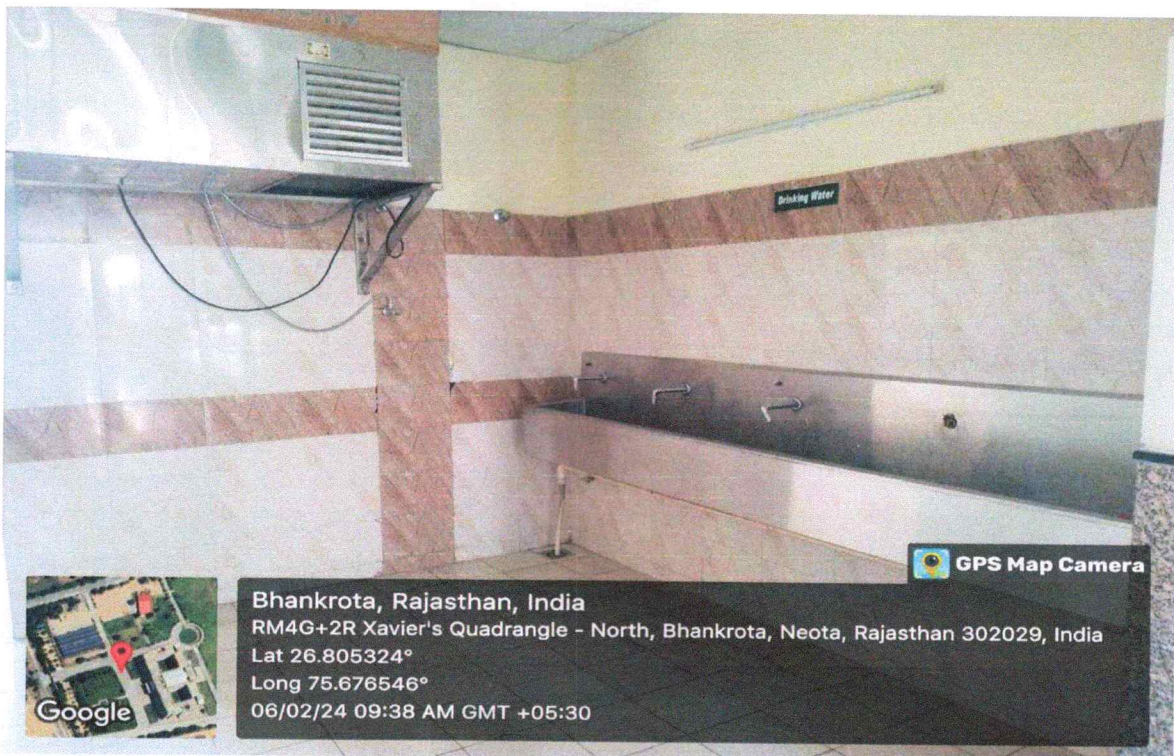


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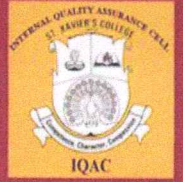
7.1.2 Sensor based Taps





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Water Sprinklers

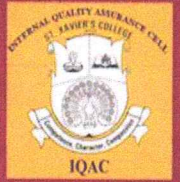
In our college, water sprinklers serve as integral components of our sustainability initiatives, particularly in water conservation. Strategically installed across our campus green spaces, these sprinkler systems efficiently distribute water, ensuring optimal hydration for our plants while minimizing waste. By utilizing advanced technology such as automated scheduling and adjustable settings, we tailor our irrigation practices to the specific needs of each area, maximizing efficiency and reducing overall water consumption. Through these measures, our college not only maintains vibrant landscapes but also demonstrates a commitment to responsible stewardship of our resources, fostering a culture of environmental consciousness within our community.





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7.1.2 Water Sprinklers used to conserve water

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Nevta-Mahapura Road, Near Nevta Dam,
Tehsil Sanganer, Jaipur-302029, Rajasthan

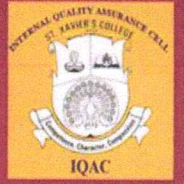
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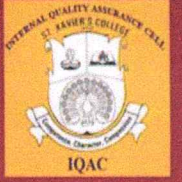
- As a part of our commitment to sustainability, St. Xavier's College Jaipur strives to be a model for environmental responsibility. We envision a campus where water conservation is paramount, integrating water harvesting systems, promoting responsible water usage, and fostering a culture of environmental awareness. Through education and action, we aim to create a sustainable and eco-friendly campus that inspires students to become stewards of the environment. As the college is located in Rajasthan, having arid topographical conditions with the variations in rainfall pattern the water scarcity is an issue of concern. In such a scenario, the college took an initiative to work towards the conservation and protection of the environment for achieving Sustainable Development Goals (SDGs) as one of its mission to accomplish.
- Different college units are joining hands together to achieve this mission through different activities and awareness programs. College units namely NSS (National Service Scheme), SAP (Swachhta Action Plan) and NGC (National Green Corps) aim to achieve these.
- Water depletion is indeed a significant and growing concern globally. Altered precipitation patterns, increased temperatures, and changing weather conditions associated with climate change further adds to the complexity. The institute worked to reduce this issue by following SDG 6 that emphasized on *“Ensure availability and sustainable management of water and sanitation for all”*.
- Realizing that the rainwater harvesting is imperative to accomplish future water needs the college has set-up a rain water harvesting unit having a capacity of 18 lakh liters. The water conserve is used to irrigate the garden. The water stirred is cleaned on a regular basis. The large open area of the college grounds and the campus allows the seepage of the rainwater thus, recharging the underground water table.





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Poster



ST. XAVIER'S COLLEGE - JAIPUR

Approved under Section 2(f) & 12(b) of the UGC Act, 1956

(Affiliated to the University of Rajasthan, Jaipur)



SWACHHTA ACTION PLAN COMMITTEE

ORGANIZES

7 DAYS WORKSHOP ON SWACHHTA ACTION PLAN

IN COLLABORATION WITH

SWACHH BHARAT MISSION-GRAMIN, DEPARTMENT OF RURAL DEVELOPMENT AND PANCHAYATI RAJ,
GOVERNMENT OF RAJASTHAN

&

DEPARTMENT OF DRINKING WATER AND SANITATION, MINISTRY OF JAL SHAKTI, GOVERNMENT OF INDIA

FROM

23rd AUGUST TO 31st AUGUST 2021

"विकसित हो राष्ट्र हमारा, स्वच्छ हो देश हमारा।"

Program Convenor:

Dr Boola Choudhary

Coordinator SAP Committee

Contact: 7728891800

Chairperson:

Rev Fr Dr A Rex Angelo SJ

Principal



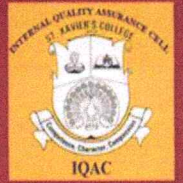
Principal

St. Xavier's College, Jaipur
Nevta-Mahapura Road, Jaipur

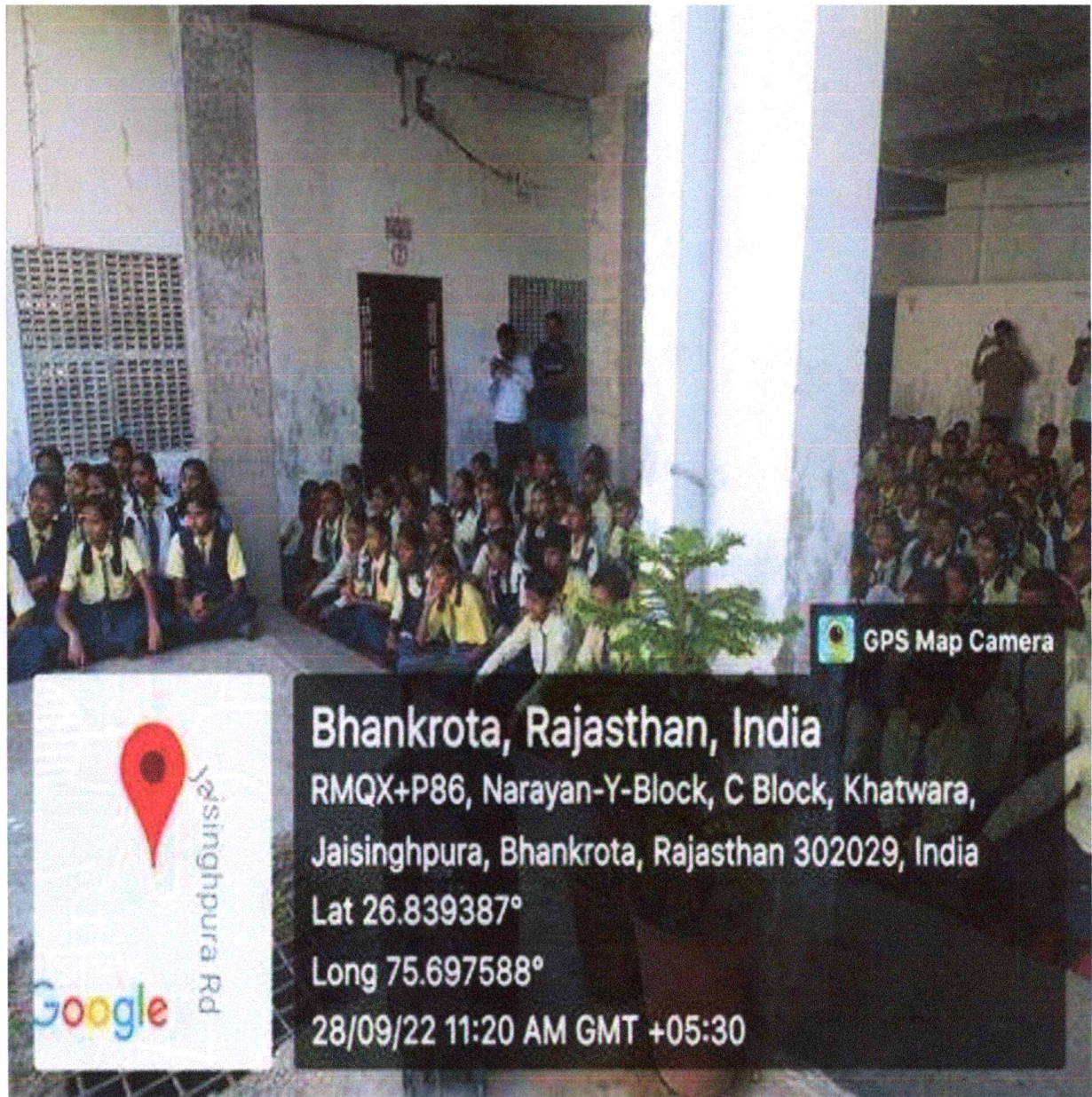


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Few Glimpses



7.1.2 Sensitization about water conservation in and around the campus

7 Day Workshop on Swachhta Action Plan in collaboration with Swachh Bharat Mission Gramin, Government of Rajasthan & Department of Drinking water and Sanitation/28th September 2022.

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Nevta-Mahapura Road, Near Nevta Dam,
Tehsil Sanganer, Jaipur-302029, Rajasthan

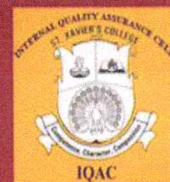
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St. Xavier's College Jaipur


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7.1.2 7 Day workshop offered by SAP & Dept of Drinking Water & Sanitation

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Tehsil Sanganer, Jaipur-302029, Rajasthan

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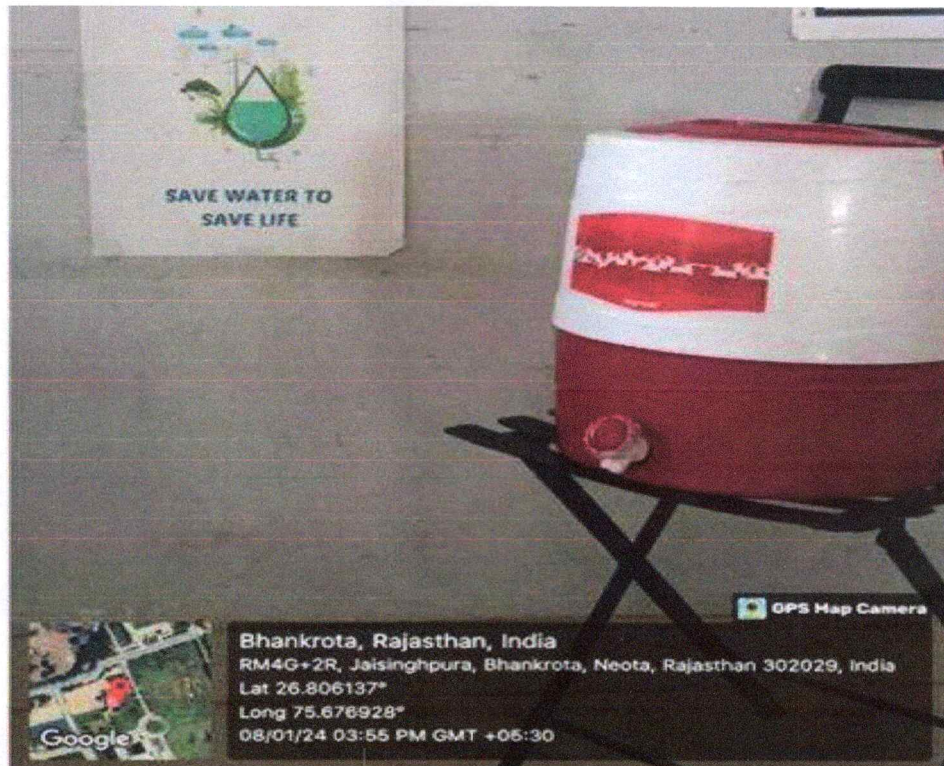
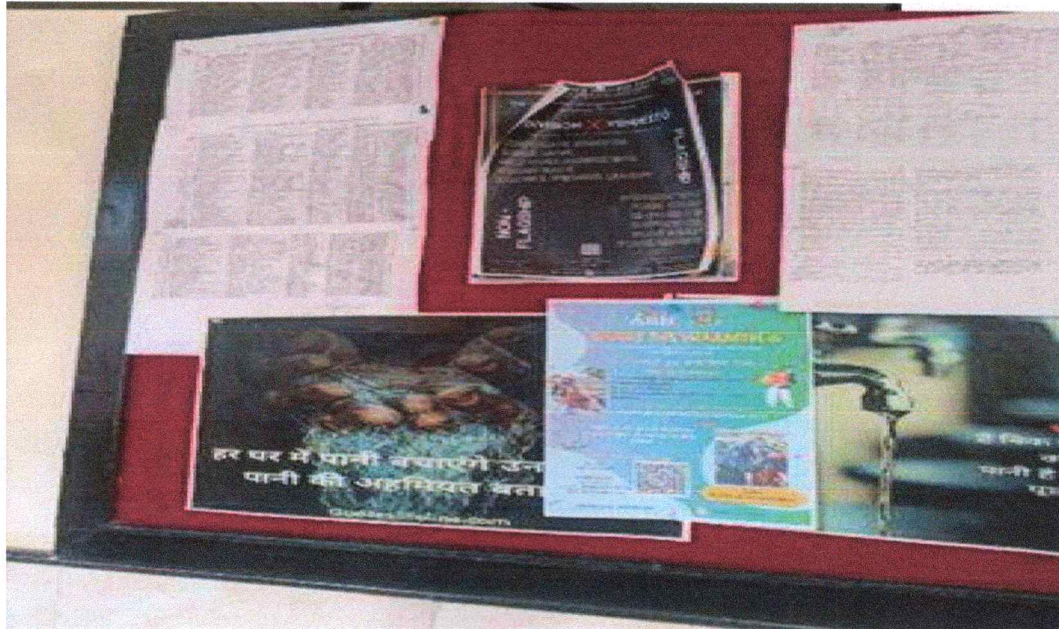
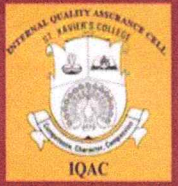

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7.1.2 Water Conservation Posters Displayed in the College Premises

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