

## **Manipal University Jaipur Adopts Building Standards to Minimize Water Use**

Water is a precious and finite resource, and as the global population continues to grow, conserving this essential element has become increasingly important. Manipal University Jaipur, as centers of education, innovation, and community, have a unique opportunity to lead by example in sustainable practices. One significant way Manipal University Jaipur does this is by applying building standards to minimize water use. Water scarcity is a pressing global issue, with many regions facing severe droughts and water stress. It is not only an environmental concern but also an economic and social one. Recognizing these challenges, Manipal University Jaipur is adopting a more responsible approach to water management. By implementing building standards aimed at reducing water consumption, universities can make a meaningful impact on their local communities and the planet.

One of the primary ways Manipal University Jaipur minimizes water use is through sustainable building design. When constructing new facilities or renovating existing ones, Manipal University Jaipur prioritizes water-efficient fixtures and technologies. Low-flow toilets, waterless urinals, and efficient faucets are examples of such fixtures that can significantly reduce water consumption (Picture 3, 4 & 5). Additionally, rainwater harvesting systems are being integrated into campus infrastructure to capture and reuse rainwater for irrigation and non-potable purposes. Campus landscapes are lush and beautiful, but they can be water-intensive to maintain (Picture 1). Manipal University Jaipur is reevaluating its landscaping and irrigation practices to strike a balance between aesthetics and sustainability. Xeriscaping, which involves using native, drought-resistant plants, is becoming increasingly popular. Smart irrigation systems that adjust watering schedules based on weather conditions and soil moisture levels are also being deployed to reduce water waste (Picture 2). Sustainability initiatives and awareness campaigns help foster a culture of responsibility towards water resources. Students are actively involved in sustainability clubs and organizations, contributing to the development and execution of water-saving strategies on campus. Manipal University Jaipur is a hub of research and innovation, and it is leveraging these resources to develop new technologies and strategies for water conservation. Faculty and students are conducting studies on water management, exploring cutting-edge solutions, and collaborating with local authorities and businesses to address water challenges in their regions.

Manipal University Jaipur is pursuing certification programs such as LEED (Leadership in Energy and Environmental Design) and the Living Building Challenge. These certifications require adherence to strict sustainability standards, including water efficiency criteria (Picture 6, 7, 8 & 9). By achieving these certifications, Manipal University Jaipur displays its commitment to sustainability and inspire other institutions and organizations to follow suit.



Picture 1: Rainwater used for water conservation through water canals



Picture 2: Use of Drip Irrigation at MUJ Campus



Picture 3: Dual stage flushing toilet



Picture 4: Auto Sensor Based Water Taps



Picture 5: Auto Sensor technique for Flushing





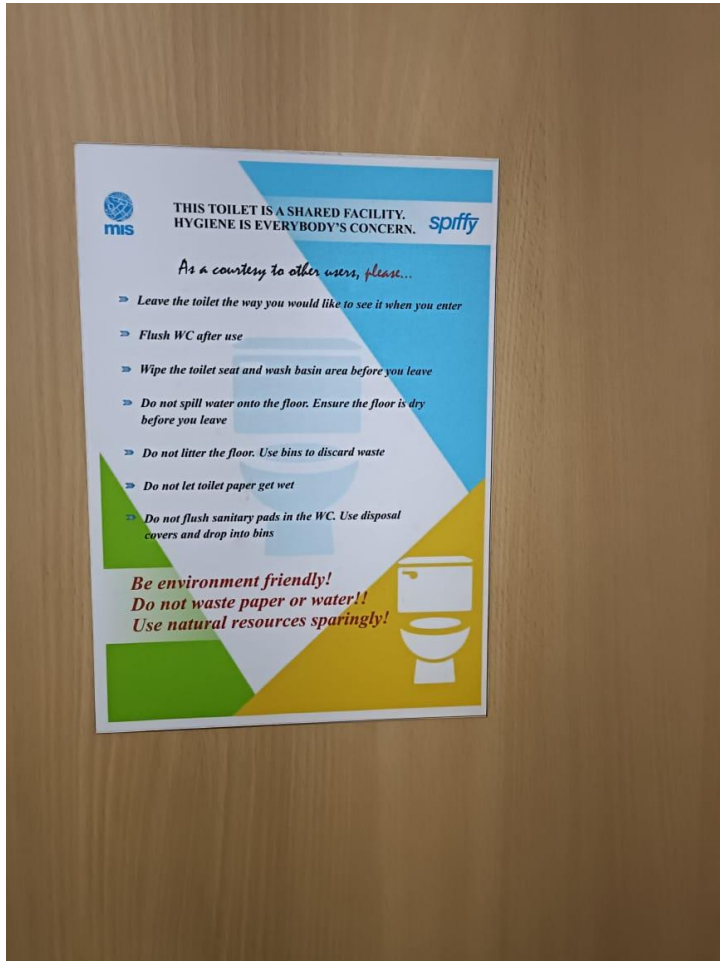
Picture 6: First University in the country to be awarded GRIHA award for integrated Water Management



Picture 7: Manipal University received award being the first Green Building Campus in the country



Picture 8: Award for Energy Conservation and Environment Friendly Design



Picture 9: Water Conservation and use minimization notice

