



## Sustainable Water Extraction at Manipal University Jaipur

Water is an invaluable resource, and universities are increasingly taking the lead in adopting sustainable water extraction technologies to meet their needs while minimizing their environmental impact.

Manipal University Jaipur, situated in Jaipur, Rajasthan, serves as a prime example of a higher education institution committed to sustainable water management. Manipal University Jaipur utilizes innovative water extraction methods from aquifers. Balancing the water requirements of a university campus with the need for responsible environmental stewardship is no small task. Manipal University Jaipur ensures the extracted water meets quality standards for its intended use, be it for drinking, irrigation, or research purposes. Manipal University Jaipur is trying to minimize the energy footprint associated with water extraction and distribution systems to reduce greenhouse gas emissions. Manipal University Jaipur is implementing technologies and practices to maximize water efficiency and minimize waste. Manipal University Jaipur carefully manages aquifer extraction to maintain groundwater levels and protect surrounding ecosystems. Advanced monitoring systems track water levels and quality, allowing for prompt adjustments if issues arise. This ensures the aquifer remains a reliable long-term water source. High-efficiency pumping systems reduce the energy required for water extraction. Variable frequency drives and smart controls ensure pumps operate optimally, minimizing energy waste. To ensure water quality, Manipal University Jaipur employs state-of-the-art treatment processes. This includes filtration, chlorination, and ultraviolet (UV) disinfection to provide safe drinking water while minimizing the need for chemical additives.

Manipal University Jaipur's approach to sustainable water extraction from aquifers on campus serves as a model for environmental stewardship and responsible water management in the academic world. By balancing its water needs with conservation efforts and efficient technologies, the university demonstrates that it is possible to meet water demands while safeguarding the environment.



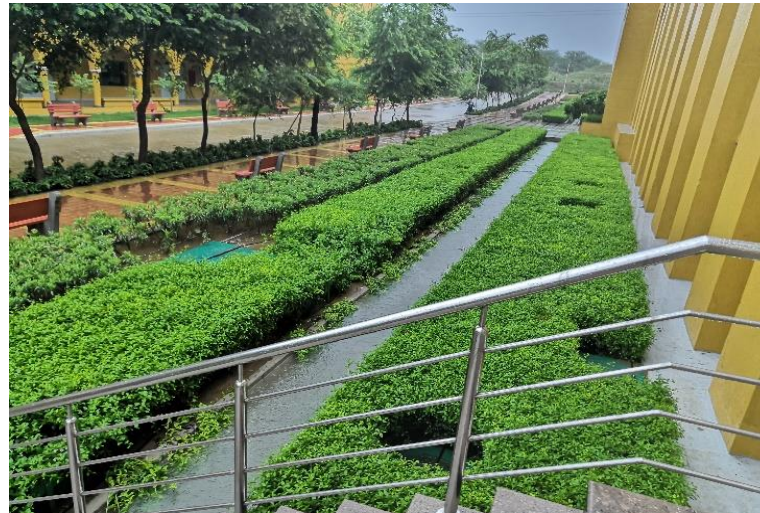
Water  
Conservation  
Facility at MUJ  
Campus: Through  
Rain Water  
Harvesting







## USAGE OF RECYCLE WATER



- Zero Water Discharge Campus ( Water Recycling )
- Sludge From STP Used As Manure For Landscaping. Reusing the debris waste for the pathways and road areas base compaction
- Vehicle Washing
- Gardening and Horticulture



# Rainwater Harvesting- Water Canals in Campus



Dahmi Kalan, Rajasthan, India  
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India  
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Long 75.564334°  
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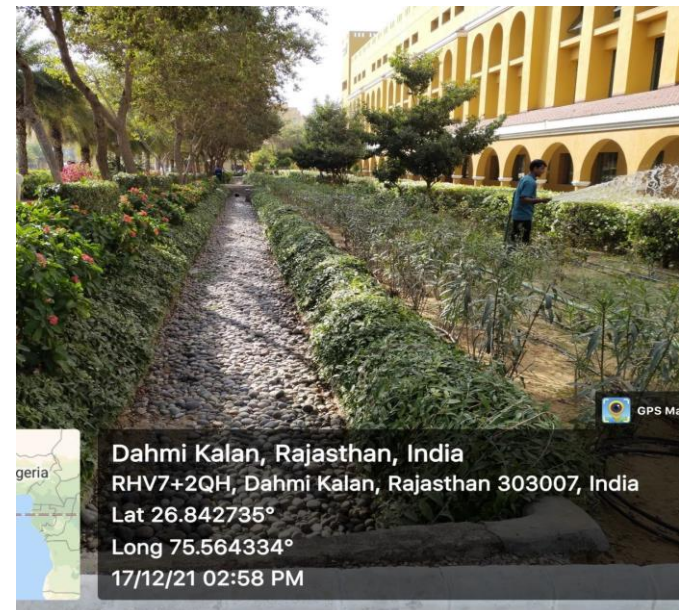
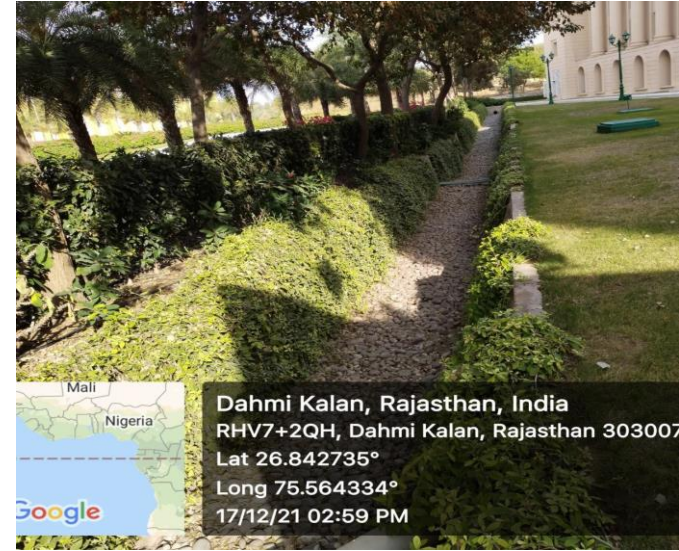
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Dahmi Kalan, Rajasthan, India  
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India  
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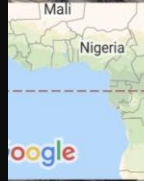




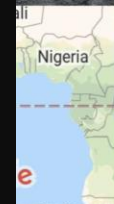
# More than 14 KM of Water Canals in University for Water Harvesting



# Peon Well Recharges Through Ponds

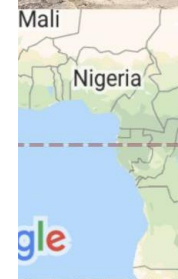


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Dahmi Kalan, Rajasthan, India  
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## Construction of Ponds





# Construction of Ponds



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RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India

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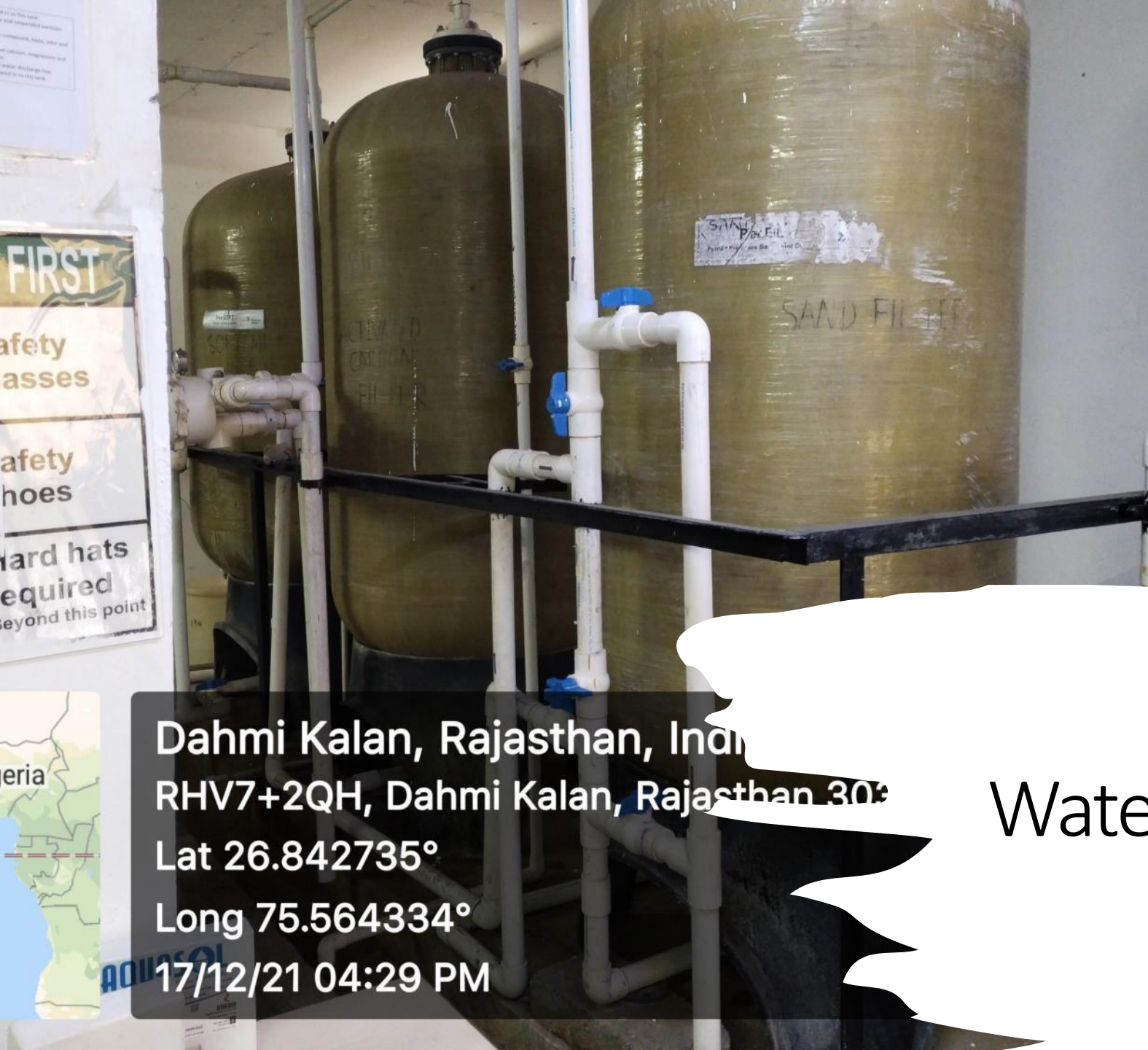




Water Gathered in the Pond  
During the Process of Rain  
Water Harvesting







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# Water Treatment Plants





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Dahmi Kalan, Rajasthan, India  
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# Water Treatment Plants



# Water Distribution System

