

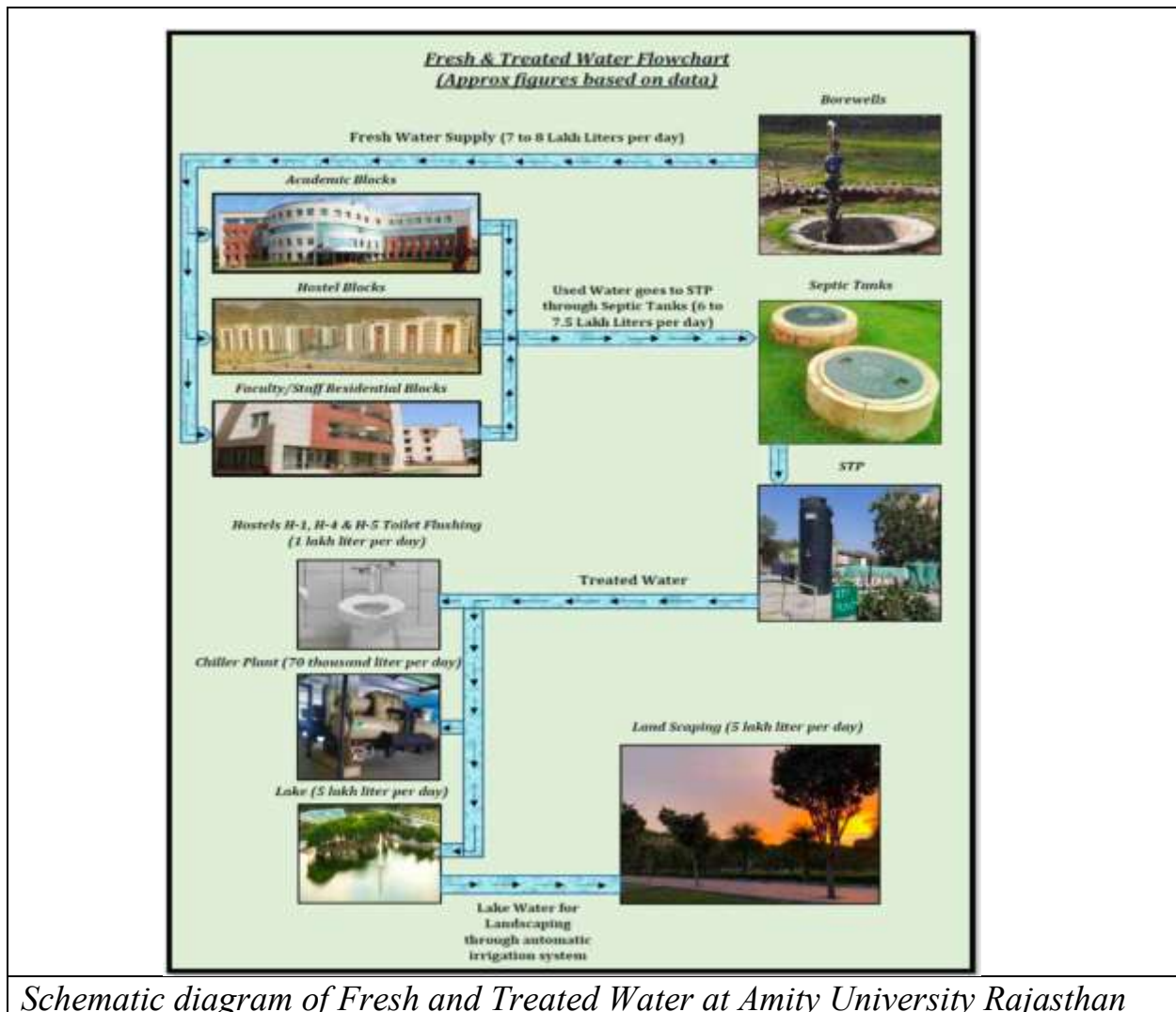


AMITY UNIVERSITY — RAJASTHAN —

SDG6: Clean Water and Sanitation

1. Institutional Framework

Amity University Rajasthan is committed towards providing clean water to its stakeholders. The University is located at the foothills of Aravali in the semiarid zone of Rajasthan. The University has a well laid water re-use policy. The University is using underground water for its consumption. The university has underground water pits for recharging of rainwater. University also has Borewell Recharge Pits established, telemetry-based water lifting. University is using Treated water in its Chiller and Flush - 1 lac litre each day. To provide clean water to its students and resident employees, University has 3 RO Plant 500 LPH, 2 RO Plants 250 LPH, with wastewater recycle system. The University has also carried out Water Audit by external experts.



Schematic diagram of Fresh and Treated Water at Amity University Rajasthan



AMITY UNIVERSITY RAJASTHAN

2. Water Conservation and Management at Campus

- Water resources are managed through a closed-loop system ensuring minimal wastage.
- Treated wastewater from the Sewage Treatment Plant (STP) and rainwater harvesting systems is channelized into an artificial lake for reuse in horticulture, flushing, and cooling systems.
- Recharge pits and rainwater percolation systems enhance groundwater replenishment.
- Smart water-level indicators and automatic pump control systems are deployed to prevent overflow or wastage.
- Annual Water Audit and Water Quality Testing are conducted by the Office of Sustainability.

3. Key Events & Initiatives (2024–2025)

Centre for Water Studies and Research (ACWSR), Amity Centre for Ocean Atmospheric Science and Technology (ACOAST) executing R&D related to water, also organizes workshops and awareness programs in local communities. University focuses on conservation of water and encourage watershed management in its outbound events. University ensures and manage to protect water bodies from plastic. The Centre of Excellence continues to promote interdisciplinary research and outreach in the domain of **water sustainability, wastewater valorization, groundwater conservation, and environmental biotechnology**. Research Through impactful publications, collaborative events, and innovative projects, the Centre has reinforced its role as a key contributor to the **sustainable management of water resources** and the **promotion of environmental biotechnology**.

A webinar on “Wastewater Biorefinery” was held on 19th September 2024, organized jointly by Amity Institute of Biotechnology (AIB) and Amity Centre for Water Studies and Research (ACWSR). Prof. Yogalakshmi K. N., Dean, School of Environment and Earth Sciences, Central University of Punjab, Bathinda. The event focused on the conversion of wastewater into useful products such as biogas, biofuels, and bioplastics, promoting awareness among students regarding sustainable wastewater utilization.

The poster is for a webinar titled "WASTEWATER BIOREFINERY" organized by the Amity Centre for Water Studies and Research. It features the Amity University logo at the top right. The text indicates the webinar is on "19th September, 2024" from "2:30 p.m. to 4:00 p.m.". The poster lists the following roles and names:

- GUEST SPEAKER:** Prof. Yogalakshmi K.N., Dean, School of Environment and Earth Sciences, Central University of Punjab, Bathinda.
- SPEAKER:** Prof. Vinay Sharma, Head, Faculty of Architecture, Amity Institute of Biotechnology, Amity University Rajasthan.
- COORDINATOR:** Dr. Shweta Kalra/Pratiba, Amity Centre for Water Studies and Research, Amity University Rajasthan.
- COORDINATOR:** Dr. Avinash Sharma, Assistant Professor, Amity Institute of Biotechnology, Amity University Rajasthan.
- MODERATOR:** Dr. Shikha Parodi, Assistant Professor, Amity Institute of Biotechnology, Amity University Rajasthan.



AMITY UNIVERSITY RAJASTHAN

A webinar was organized on National water security through Glaciers preservation on the occasion of World Water Day 2025. The theme “National Water Security through Glaciers’ Preservation” was inspired by the urgent need to address the effects of climate change on glaciers, which serve as crucial freshwater reserves. As glacier retreat threatens water availability for drinking, agriculture, and energy, the event emphasized the global importance of conservation for ensuring sustainable water management. The discussions underscored international cooperation in tackling climate-induced glacier loss, highlighting its direct relevance to SDG 6 (Clean Water & Sanitation),

"National Water Security through Glaciers' Preservation" in a Webinar being organized on the occasion of World Water Day 2025 and in recognition of the UNO Glaciers' Preservation Year 2025.

Amity Institute of Biotechnology
Amity Centre for Water Studies and Research
in collaboration with
Indian National Chapter of International Association of Hydrogeologists (INC - IAH)
Organizes
WEBINAR ON
NATIONAL WATER SECURITY THROUGH GLACIERS' PRESERVATION
27th April, 2025 (Thursday) | 9:30 PM to 11:00 PM

Chief Sponsor: Prof. (Dr.) K.S. Chaudhary, Secretary, INC, IAH and Chairman, Dept. of Geophysics, Kurukshetra University, Kurukshetra

Coordinator: Amity Centre for Water Studies and Research, Dr. Shweta Kataria, Associate Professor, Amity Institute of Biotechnology

Moderator: Dr. Shikha Purohit, Assistant Professor, Amity Institute of Biotechnology

Speakers: Prof. (Dr.) Vijay Sharma, Dean Research, Amity Institute of Biotechnology; Dr. Arjun Sharma, Assistant Professor, Amity Institute of Biotechnology

on the occasion of
World Water Day 2025 and
the UN Glaciers' Preservation Year 2025



National Seminar on Groundwater Sustainability (March 1–2, 2025) Organized by Amity Centre for Water Studies and Research (ACWSR) in collaboration with Indian National Chapter–International Association of Hydrogeologists (INC-IAH) and Ground Water Department, Government of Rajasthan. Around 200 national and international delegates, 55 research papers, and keynote addresses by eminent experts including Ms. Karlene Maywald, former Minister, Australia. The event strengthened national collaboration in groundwater research and sustainable water management.



AMITY UNIVERSITY RAJASTHAN



National Seminar on Groundwater Sustainability during March 1-2, 2025

एमिटी यूनिवर्सिटी में दो दिवसीय भूजल स्थिरता पर नेशनल सेमीनार आयोजित

खूरो/नवज्योति, जयपुर। एमिटी सेंटर फॉर वाटर स्टडीज एंड रिसर्च, एमिटी यूनिवर्सिटी राजस्थान ने इंटरनेशनल एस्तेसिएशन ऑफ हाइड्रोजियोलॉजिस्ट्स (आईएएच) के इंडियन नेशनल चैप्टर (आईएनसी) और राजस्थान सरकार के भूजल विभाग के सहयोग से दो दिवसीय भूजल स्थिरता पर पृथ्वी विज्ञान परिप्रेक्ष्य पर नेशनल सेमीनार को मेजबानी की।

नेशनल सेमीनार का आयोजन एमिटी यूनिवर्सिटी राजस्थान, जयपुर के डॉ. पंकज शर्मा (एमिटी यूनिवर्सिटी राजस्थान), कुलपति विश्वविद्यालय के अतिरिक्त और सहायक आईएनसी-आईएएच के प्रेजिडेंट प्रोफेसर ए.के. सिंह द्वारा संयुक्त रूप से किया गया था। उद्घाटन सत्र के दौरान, राजस्थान सरकार के भूजल विभाग के मुख्य अधिकारी सुरजभान सिंह ने इस तरह की शैक्षणिक पहल के महत्व पर जोर दिया। उन्होंने अपने विभाग द्वारा शुरू की गई नई



परियोजनाओं की रूपरेखा बताई और भूजल अनुसंधान में उनके योगदान के लिए शोध विद्वानों, पेपर और पोस्टर प्रस्तुतकर्ताओं, जल विज्ञानियों और वैज्ञानिकों की सराहना की। स्वागत समारोह में ऑस्ट्रेलिया की पूर्वमंत्री कार्लिन मेकलड मुख्य अतिथि के रूप में शामिल हुईं।

उन्होंने एंड्रलड (2006) में मिल्लिनियल सूखे के प्रबंधन पर अपने विचार रखते हुए जल चुनौतियों से प्रभावी ढंग से निपटने के लिए सरकारी विभागों और मंत्रालयों के बीच सहयोगी प्रयासों की आवश्यकता पर बल दिया। उन्होंने भूजल और सतही जल के बीच महत्वपूर्ण

अंतर्संबंध पर प्रकाश डाला और सेमीनार में युवा शोधकर्ताओं और प्रतिभाओं की सक्रिय भागीदारी को सराहना की। एमिटी सेंटर फॉर वाटर स्टडीज एंड रिसर्च के समन्वयक डॉ. पंकज शर्मा और डॉ. श्रेया कुलश्रेya के सहयोग से सेमीनार में कोलॉइड और एमओआईएल सहित प्रतिष्ठित शोध संगठनों और सरकारी निकायों के लगभग 200 राष्ट्रीय और अंतरराष्ट्रीय शोध विद्वान, जलविज्ञानी और वैज्ञानिक एक साथ आए। इस कार्यक्रम ने विशेषज्ञों को भूजल प्रबंधन के नवीनतम रुझानों और भविष्य की रणनीतियों पर चर्चा करने के लिए एक मंच प्रदान किया।

जयपुर, जयपुर



AMITY UNIVERSITY

— RAJASTHAN —

4. Future Roadmap (2025–2030)

- Improve campus aquatic biodiversity, rainwater harvesting, recycling technique
- Awareness program on water conservation
- Community awareness activity on water recycling and reuse
- National and international collaboration on water conservation and management