كليـــة البَتـرجي الطبيـــة
BATTERJEE MEDICAL COLLEGE

SUSTAINABLE DEVELOPMENT GOAL 6 (CLEAN WATER)

2025 - 2026 **REPORT**



MEDICAL EDUCATION AND LIFE STYLE

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SUSTAINABLE DEVELOPMENT GOALS

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Batterjee Medical College's **Commitment to the Sustainable Development Goals**

Clean Water



Batterjee Medical College (BMC) recognizes that access to clean water and sanitation is a fundamental human right and a cornerstone of public health, environmental stewardship, and sustainable socio-economic growth. That's why we've made it a campus-wide mission to educate, advocate, and implement initiatives aiming to achieve this goal both on campus and within the wider community.

Water Supply Management and Tracking

BMC maintains rigorous tracking and documentation of its water consumption to ensure sustainable and safe supply across all campus facilities. The college partners with certified providers to meet its daily freshwater demands. For instance, detailed consumption records from December 2025 indicate that BMC utilized 4,279 cubic meters of desalinated water through Sawaco Water Desalination. Furthermore, BMC diversifies its supply chain for clean water access by collaborating with other verified vendors, such as Leyoun Water Factory Co.. This systematic documentation allows campus facility managers to audit usage, identify anomalies in real-time, and implement immediate corrective actions to prevent water loss.

Sanitation and Safe Wastewater Disposal

Ensuring a safe and hygienic campus environment is a critical component of BMC's SDG6 strategy. The institution strictly regulates waste and sanitation management through formal, documented channels. BMC has an active commercial waste management contract with Wazzan International Contracting Co. This agreement guarantees high-frequency sanitation service, ensuring that all campus waste is disposed of in a compliant, environmentally safe manner that protects local groundwater and public health.

Campus Innovations and Conservation Activities





To minimize its environmental footprint, BMC has embedded advanced technological solutions into its physical infrastructure. The college has deployed advanced water purification systems alongside smart water metering technology across academic buildings, residential units, and green spaces, enabling real-time monitoring to detect leaks and reduce overall waste. Additionally, BMC has established rainwater harvesting systems and greywater recycling units. These systems capture and treat runoff and non-hazardous wastewater, redirecting it for landscape irrigation and other non-potable uses. To further enhance conservation, the facility management team conducts routine audits of plumbing fixtures, upgrading campus bathrooms and laboratories with low-flow faucets, aerators, and dual-flush toilets to drastically reduce daily freshwater consumption per capita. Regular maintenance schedules are also strictly enforced to ensure zero tolerance for plumbing leaks.

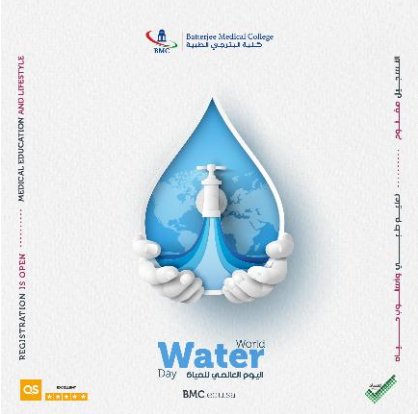
Academic Integration and Scientific Research



During the 2025 academic year, BMC thoroughly integrated water sustainability and environmental health into the curricula of its health sciences and preparatory year programs. Students in Pharmacy and Health Management utilize problem-based learning modules to study waterborne diseases, the global impact of water scarcity, and how poor sanitation affects vulnerable communities. On the research front, BMC faculty and students lead investigations into the intersection of water quality and public health. A flagship research initiative launched in 2025 focuses on the effects of water scarcity on maternal and child health in Saudi Arabia's Western Region, generating data designed to inform national public health policies. The college also hosts specialized seminars led by environmental scientists

to expose students to the latest innovations in wastewater treatment and sustainable resource management.

Community Outreach and Student Leadership





BMC extends its water sustainability mission beyond campus borders through active community engagement and student-led initiatives. Pharmacy Program spearheaded the "Pure Drops: Clean Water and Sanitation Campaign," educating the public on water efficiency, freshwater conservation, and wastewater treatment. Expanding on this, BMC partnered with local schools and community centers in Jeddah in 2025 to deliver hands-on workshops that taught practical skills such as water quality testing, safe storage, and simple home purification methods. BMC student clubs and the Social Responsibility Unit actively organize external environmental activities, including regular clean-up drives at local beaches and wadis to protect natural water bodies from pollution. These extracurricular efforts are reinforced by on-campus awareness campaigns utilizing visual displays and social media to highlight the ethical and religious imperatives of water conservation.

Through these interconnected operational, academic, and community-focused strategies, BMC continuously demonstrates a holistic and proactive commitment to achieving global water sustainability and health equity.

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