

Sustainable water extraction on campus

The irrigation of green area and landscape is provided by the drip irrigation system to save water and nutrients. Drip irrigation is done either in the early morning or during the late afternoon and/or evening to mitigate evaporation and ensure that water can be effectively absorbed by plants.



Drip irrigation system to minimize water loss



Saving water at the green area

The campus has a desalination (Reverse osmosis) unit, with a capacity of the desalination unit is $30 \text{ m}^3/\text{d}$. It provides water for the drinking purpose and washing raw fruits and vegetables. Generally, the influent TDS is 500 ppm, and the water quality improved at 150 ppm. The effluent from the desalination unit enters each floor using separate pipes.



Reverse osmosis desalination unit at EJUST campus, providing safe and free drinking water



Schematic diagram of the RO system



Automatic control and monitoring of the RO system



Ultraviolet (UV) unit for disinfection