



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

عمادة خدمة المجتمع والتنمية المستدامة
Deanship of Community Service and Sustainable Development

SDG 6.4.2

Water Reuse
Measurement

2024-2025

Table of Contents

1. Reuse of Water for Plants and Trees	3
2. Laying pipelines to use reuse treated water for plants.....	4
3. Plants and trees consuming reused water.....	5
4. Reuse of Water for Fountains	12
5. Consumption of Treated Water for Drinking Purposes	13
6. Consumption of Recycled Water in all Washrooms at IAU	15

1. Reuse of Water for Plants and Trees



Use of treated water to nourish Grass fields and plants with water

2. Laying pipelines to use reuse treated water for plants



3. Plants and trees consuming reused water



Recycled water is utilized for Irrigation and for garden sprinkler system



Treated water used in Water Fountains



Plant beds and trees consuming treated water



Consumption of treated water for various plants and trees



Use of the Sprinkler system to save water and nourish Grass fields and plants with water





Recycled water is utilized for Irrigation and for garden sprinkler system

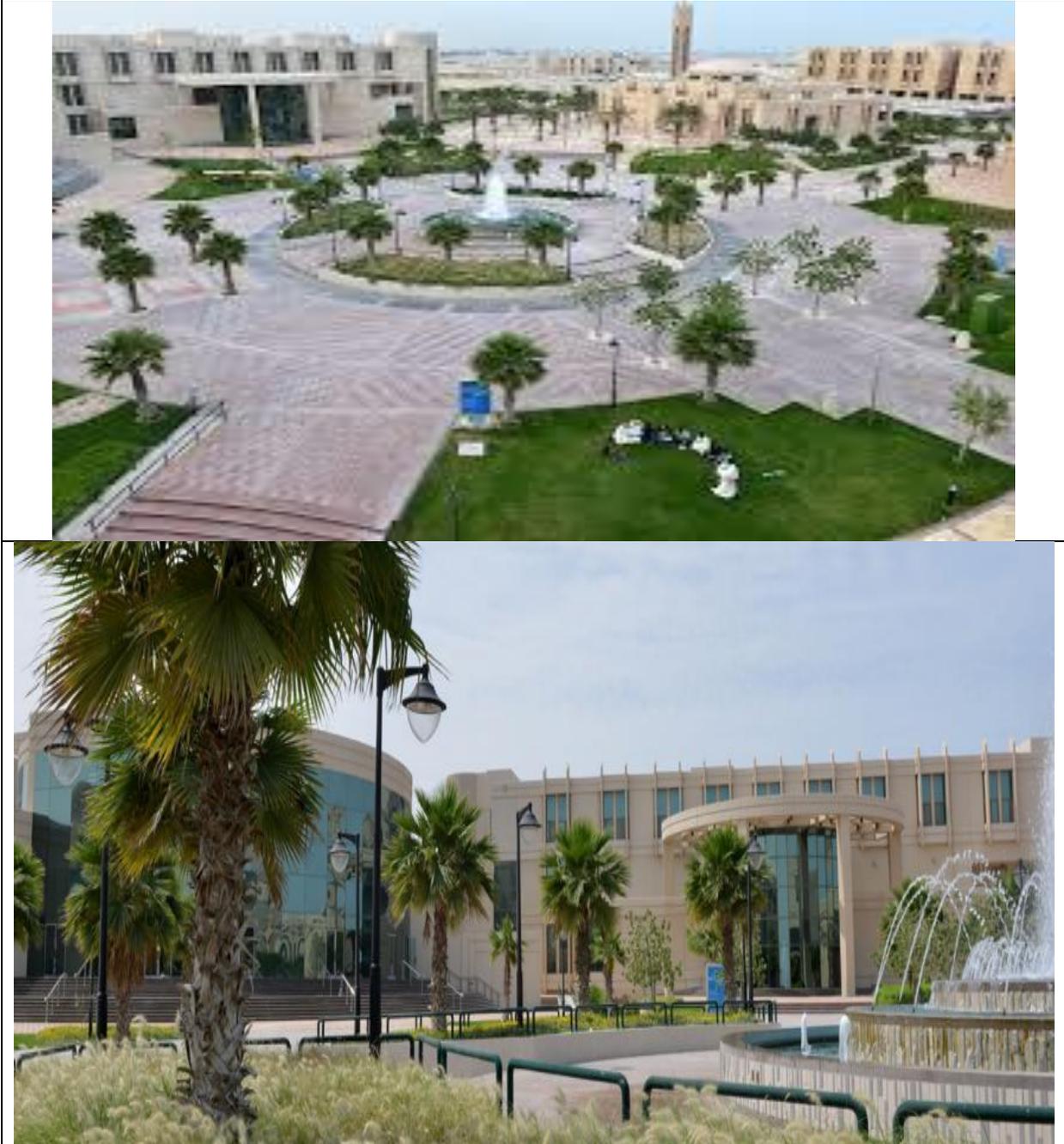


Maintaining Plant Vegetation with Water at IAU Campus



Conservation and regular planting of saplings in IAU Campuses

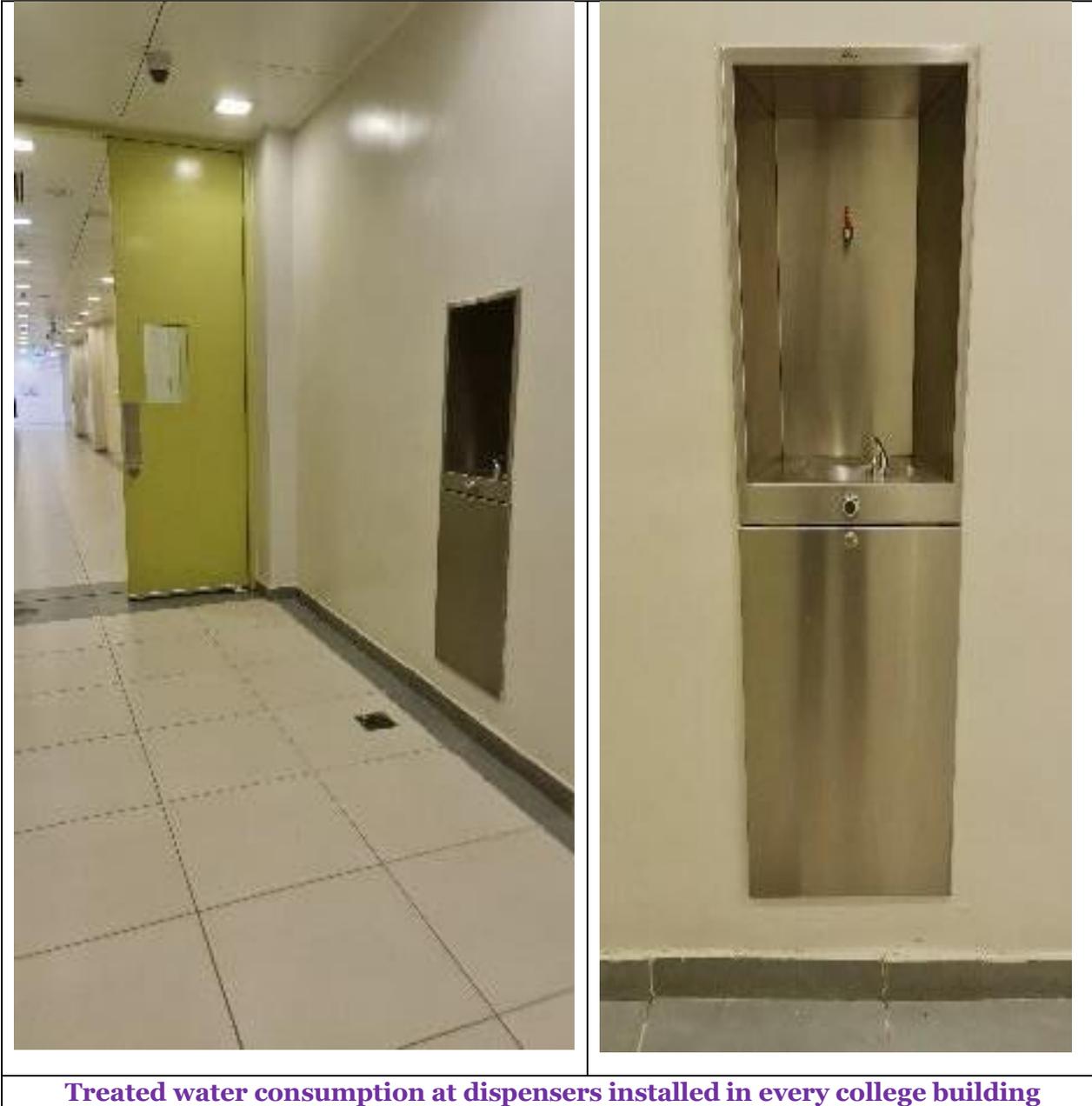
4. Reuse of Water for Fountains



5. Consumption of Treated Water for Drinking Purposes

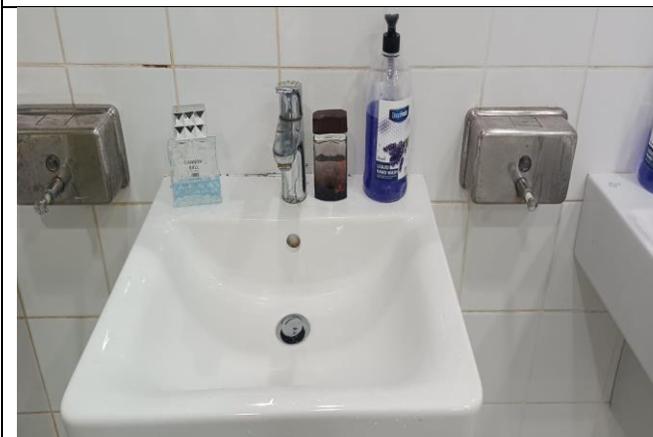


Consumption of Treated Water in Water Dispensers at IAU



Treated water consumption at dispensers installed in every college building

6. Consumption of Recycled Water in all Washrooms at IAU



Treated water is consumed in all Washrooms across IAU

Description:

The grey water and brown used for flushing toilets and washing basins are collected to a central oncampus wastewater treatment plant (WWTP), where a biological aeration process is taking placed to reduce the amount of pollutants in the water to be suitable for re-use.

The WWTP capacity is 1200 m³ per day which consist of : 2 working tanks + 1 sapre of capacity 600 m³ Water reuse is by mixing 1200 treated WWTP with + 2800 m³ of well water (TDS 10%) totally = 3600 m³ per day is the amount of reused water for greening an d irrigation. The IAU is totally reuse the treated wastewater on campus with zero discharge.

