

## Water Conservation Program

O6U have a large green area, in these areas there are many facilities for water preservation for reuse and to get the most benefit from the rainwater and different sources, this can be summarized in the following:

1- large underground water reservoir

2- As shown in figure (4), There is a large water collection and reservoir place that reaches 277 m<sup>2</sup>. In this place, rainwater can be collected in tanks, in addition it gives a great view in the middle of campus. (Note, Egypt climate is almost dry).

2- All over the fields in the university campus, there are channels to collect and direct water as shown in figure (5).

3- On the parking area and different places in the university there are draining channels to collect water as shown in figures (6 and 7).

4- October 6 University has a smart separated sewage system for clean water (rainwater). Through many safely designed openings and passages into the university ground and distributed everywhere to cover the whole the university landscape, as it collects and conserve water into main ground tank so it can be used for watering the plants and green areas inside and around the university by dropping techniques for optimum water preservation and use.

We are trying to do our best for water reservation and reusage in fields irrigation, washing cars and trees. We have a plan for efficient reuse of water by 2025 to decrease 50% of the consumption and prevent water leakage.



**Fig.1. Smart controlled system for plants watering**





**Fig.2. Example of Consumption of treated water**

- The pass way of rainwater that feeds the smart system of plants watering



**Lining irrigation canals** تبطين الترع

**Fig.3.** Conservation that been adopted by the Egyptian government as a national project toward saving the irrigation water through water canal lining to decrease the loss of water. As it expected to save 5 billion cubic millimeter of the water needs for agriculture purposes.



**Fig 4:** Underground water reservoir



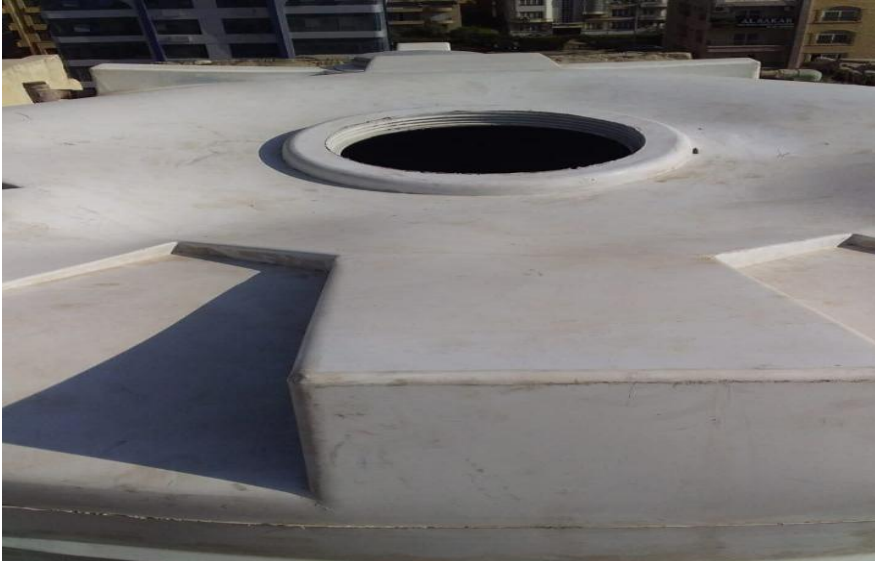


Fig 5: Roof water tanks



Fig 6: Water filters



**Fig.7.** The large water reservoir besides the administrative building (277 m<sup>2</sup>).





**Fig.8.** The irrigation of farms using sprinklers and channels to collect water.





**Fig.9.** Channels (drains) to collect water.



**Fig.10.** Rainwater and wastewater collection system. Sewage system for collecting rainwater in ground main water tank for rainwater collection.





**Fig.8.** Green houses for water conservation.