



ADITYA COLLEGE OF PHARMACY

(Affiliated to JNTUK, Approved by AICTE)



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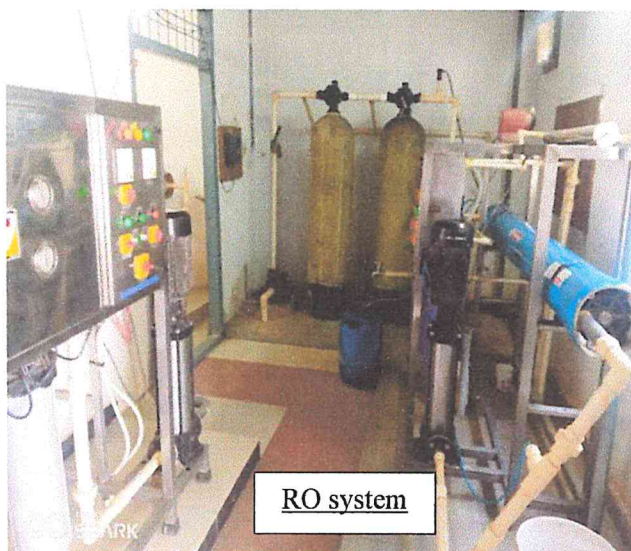
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7.1.4 [5] MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS

Aditya College of Pharmacy maintains water bodies in the campus through which water is pumped and fed into overhead tank of the college through well laid pipe network. The water from the tank then goes to the toilets and laboratories of the college. For drinking purpose, water from the overhead tank is supplied through a separate set of distribution pipes into the RO system of the college for purification and then the drinking water finally goes to the water cooler for consumption. On routine basis maintenance work of RO system and water cooler is done.



Overhead Tank



RO system



Water cooler



Water supply in laboratory

Scan here

RO Facility

In the campus, water that can be consumed is reverse osmosis water. We have 3 R.O units available within the institution with a treatment capacity of 2000 liters per hour. Chilled water is distributed to all of the supply points on each floor, and drinking water is made available through the refrigerator on the top floor. A 7.5 horsepower bore-well pump is used to pipe ground water onto elevated tanks for individual blocks throughout the campus. Various uses for the water from the overhead tank include gardening, R.O. plant supplies, restroom flushing, and laboratory supplies.

The table below provides an approximation of the above tanks' capacity and consumption.

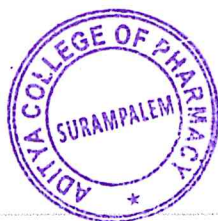
Capacity and Usage of Overhead Tank	Consumption of Overhead Tank
Capacity of overhead tank	50,000 liters
Filling of the Tank	Twice a day
Drinking water usage	5,000 liters
Gardening usage	25,000 liters
Washroom usage	20,000 liters
Supply of raw water to RO Plant	1,60,000 liters/day
RO water generated	48,000 liters/day
Reject RO water generated	1,12,000 liters/day

Domiciliary water usage:

The campus' overhead tanks provide water for all domestic uses, including floor cleaning, gardening, and toilet flushing. About 25,000 liters of gardening water are needed for the inner garden area. 20,000 liters of water are consumed in the restrooms, respectively.

Reserving in RO Plants:

The institution has 3 RO plants, each of which has a treatment capacity of 2000 liters per hour. Every day for 8 hours, each of the 3 RO Plants uses about 1,60,000 liters of raw water. Approximately 30% of the raw water supply was treated, producing 48,000 liters of treated water daily. The outer garden area with more trees receives the remaining 70% of the waste water from the RO plant for gardening.



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