



AMALA COLLEGE OF NURSING

(An undertaking of Amala Cancer Hospital Society)

Amala Nagar P.O., Thrissur-680 555, Kerala, India.

Website : www.amalanursingcollege.org

FIRST CYCLE NAAC ACCREDITATION 2022

CRITERION 7

INSTITUTION VALUES AND BEST PRACTICES

7.1 Institutional Values And Social Responsibility

7.1.5 – Water conservation facilities available in the institution – Maintenance of water bodies and distribution system in the campus – Installation bill

Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL



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MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS

The requirement of water for the college, hostels and gardening etc are met by supply from main tank installed for the common for hospital complex. The water collected from the Puzhakkal irrigation canal is treated for water treatment plant and is supplied through a separate set of distribution pipes.

The water from main tank of the hospital is pumped into tanks installed in the college building and direct supply to hostel from main tank of hospital.

Water consumption in the college

S.No	Location	Capacity of water tanks	Total capacity	Consumption per day
1	Hostels	Direct	-	15000 L
2	Main Building	15,000	15,000 L	15,000 L
3	U/G tank	15,000	15,000 L	
4	Gardening	Treated water from ETP		15000 L
Total Consumption of fresh water				30 KL
Reuse water from ETP for gardening				15 KL

Rainwater harvesting for ground water recharge.

Amala College for nursing initiated to collect the rain water from its roof and charged to ground water through percolation pits around its buildings. Water is collected in the pond located near to ETP (effluent treatment plant.) area. The pond water is used for gardening for vegetable and botanical gardens located at the entrance of effluent treatment plant.




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Water treatment plant (general use)

ACON utilizes the treated water from the water treatment plant for general use. The water treatment plant has the capacity of **10 Lakh liters /day**. The treatment process consist of 6 steps. These include:

1. Collection
2. Chemical Addition
3. Sedimentation and Clarification
4. Filtration
5. Disinfection
6. Storage and distribution

Step 1-Collection

Water is collected from the **Puzhakkal irrigation canal** and stored for the treatment process.

Step 2-Chemical addition

Caustic soda (sodium hydroxide, or NaOH) is used in the water treatment. This chemical stabilizes the pH of water by absorbing water and carbon dioxide.

A chemical called poly aluminium chloride is used to remove the anionic colloidal impurities and settling of suspended materials during clarification of the raw water.

A dosing pump is used to transport very precise flow rates of a chemical into the water stream. After chemical dosing the water is released into the settling tank

Step 3-Sedimentation and clarification

The water then passes into the clarifier-1. The clarifier is a conical shaped tank which helps in removing the sludge by means of gravity. The collected sludge is periodically removed.

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The same process is repeated once the water reaches the clarifier -2. During this water is chlorinated by adding sodium hypochlorite.

Step 4-Filtration

In this stage the water undergoes filtration .The water passes into the filter feed tank (sand filter and activated carbon filter) and iron removal filter.

Step 5-Disinfection

The filtered water is disinfected with sodium hypochlorite

Step 6-Storage and distribution

The treated water is finally stored in the final storage tank and distributed

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