

7.1.5(4) DOCUMENTS RELATED TO
MAINTAINANCE OF WATER BODIES AND
DISTRIBUTION SYSTEMS



LENORA INSTITUTE OF DENTAL SCIENCES
(Recognised by GOI/ Dental Council of India & Affiliated to Dr. NTR UHS-
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Maintenance of water bodies and distribution systems in the campus

- 1. Rainwater Harvesting:** The college campus depends on groundwater for all its needs and the daily need of water in the campus is around 1,00,000 liters (approx.). The rainwater coming from rooftops and runoff within the campus are collected in harvesting pits. Which are constructed at all feasible points on the campus to recharge the groundwater.
- 2. Borewell /Open well recharge:** The groundwater is utilized for daily needs, and is pumped from the constructed bore wells to the storage tanks. The borewells with different depths as per the sub-soil water position were constructed, and all were recharged regularly.
- 3. Waste water recycling:** Total wastewater produced from hostels is treated with a centrally constructed decentralized wastewater treatment plant. The wastewater after treatment is proposed to be utilized effectively for gardening purposes.
- 4. Maintenance of water bodies and distribution systems on the campus:** The groundwater is pumped into storage tanks located at different places on the campus. The water is distributed through well well-laid pipe network. The entire distribution system is well supervised and maintained regularly by the civil and water work bodies of the institution to ensure that there are no leakages and wastages of precious water. The water bodies are maintained regularly so as to provide sustainable, consistent, economically safe, and adequate water to the campus. The main objective of the maintenance is to provide diseases disease-free environment. On the campus, the process of Chlorination will be carried out to kill bacteria, viruses, and other microbes present in water. Mainly it is carried out to prevent the spread of waterborne diseases

like cholera, dysentery, typhoid, etc. The distribution of water is done through a well-equipped system of pipes. By the process of Ozonisation and Reverse Osmosis, the water is treated as drinking water and supplied through a separate type of distribution system, and another set of distribution pipes is used for all other activities. By using Low-flow plumbing fixtures, the wastage of water is highly reduced. All the collaborators of the college are educated and motivated about the importance and the usage of water on the campus. Scheduled Inspection of machinery is done on a daily, weekly, monthly, and annual basis in the campus. In order to avoid leakages and to prevent wastage of water, the overall distribution system on the campus is well maintained and supervised by the Maintenance Department of the college



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