



CHEBROLU ENGINEERING COLLEGE (HU): CHEBROLU

(Approved by AICTE, NEW DELHI & Affiliated to JNTUK, Kakinada, AP)

Accredited by NAAC

CHEBROLU, GUNTUR (DT)-522212, ANDHRA PRADESH

7.1.4 Water Conservation in the Institution

1. Rain Water Harvesting system:

Rain water harvesting is the collection and storage of rain water which is used for various purposes in the campus

In the institution for rain water harvesting purpose 8 feet measured pit was dug.




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A layer of concrete slab by laying chips was set in the pit.



The concrete rings on the concrete layer was constructed in the pit.




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A pipe was attached to collect the rain water



The pit was filled with concrete rings up to the brim




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The Concrete rings were filled with stones, chips and sand to collect the rain water.




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The Rain water Harvesting pit which was constructed is located in this area




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2) Bore well/Open well recharge:

The college campus comprises of 3 Bore wells. They give the Production of 98,000 liters. These Borewells assure an adequate water supply to the campus. All these Bore wells are properly maintained.




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3. Construction of tanks for storage of water:

Water tanks in the campus are used to provide storage of water which are used in drinking purpose, washing, irrigation, fire suppression, both for plants and livestock, food preparation in the mess for hostel students.




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4. Waste water recycling

For re-using the waste water from Reverse Osmosis Filter, instead of letting the water outside, collect the rejected water in a container or sent to the storage tank and that water can be reused for non-drinking purpose like washing clothes, cleaning floors and watering plants or washing Buses etc.,




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Sprinkler irrigation system:

The rejected Water from RO units are used for common rooms, Gardening and Sprinkler irrigation system.




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Disposal of Waste Water:

The waste water coming from the drinking water tanks can be re-used for non-drinking purpose like gardening.




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5.Maintenance of water bodies and distribution system in the campus:

Water is distributed through RO Plant for drinking through distribution pipes. The Water for drinking is treated with RO situated at different units of the educational building.




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Waste Water Stored in the Septic Tank to avoid Water Pollution

Waste Water is disposed of through a drain field where natural filtering takes place in the soil. A septic tank is an underground chamber made of concrete, fiberglass, or plastic through which domestic wastewater flows for basic Drain pipe. Settling and anaerobic digestion processes reduce solids and organics. Generally, these pipe connections are made with a T pipe, allowing liquid to enter and exit without disturbing any crust on the surface.




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RO MAINTAINENCE BOOK

