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7.1.4 Water Conservation facilities available in the institution

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RGMCET has very good water management plan to support all our water needs including both Men's and Women's hostel. The water management is well supported with rain water harvesting and Sump. The ground water is circulated to all overhead tanks using bore wells. The college also has a sewage treatment plant to do water recycling and use it for watering plants and to support green energy.

Rain Water Harvesting:

The rainwater is harvested to charge the rain water into the soil for ground water recharging. The storage of rainwater on surface is a traditional techniques and structures used were underground tanks, ponds, check dams, weirs etc.

Rain Water Harvesting Unit near the Canteen

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Rain Water Harvesting System

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Bore Well and Sump Recharge:

The bore wells are constructed in water abundant points inside college. The ground water was pumped to sump using bore well. There are totally 4 sumps inside the college to supportwater necessities to cover all blocks of the college including hostels.

Bore well near the Main Gate

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Sump at the Back side of the Canteen

Construction of Tanks:

Overhead tank with capacity of 1,25,000 litres is available in the College. The Ground water is pumped into the tank and it is distributed through well laid pipe network. Entire distribution system is well supervised by Maintenance department to ensure that there are no leakages and wastages of precious water through joints, valves etc. Waste usage of water is reduced using low pressure flushes.

Water Tank on the top of ME Block

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Overhead Tank in front of CE Block

Water Tank on top of RB Block

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Waste Water Recycling:

The institution always has a motto in saving water for future. In this regard a Wastewater plant of capacity 200KLD is available at the campus with present utilization value of 2, 00, 000 litres per day. The technology that has been adopted this WWTP is MBBR (Moving bed bio film reactor) technology for the treatment of domestic sewage and other waste waters. This technology ensures that the quality of the treated water confirms to the standards and requirements as laid out by Central/State pollution control board and the same has been reviewed and approved by authorized Persons on periodic basis to ensure on the quality.

Waste Water Recycling Plant in front of ME Block

The recycled water is used to gardening (70%) ,flushing toilets (10%) and other custodial purposes like hardscape cleaning ,washing etc.

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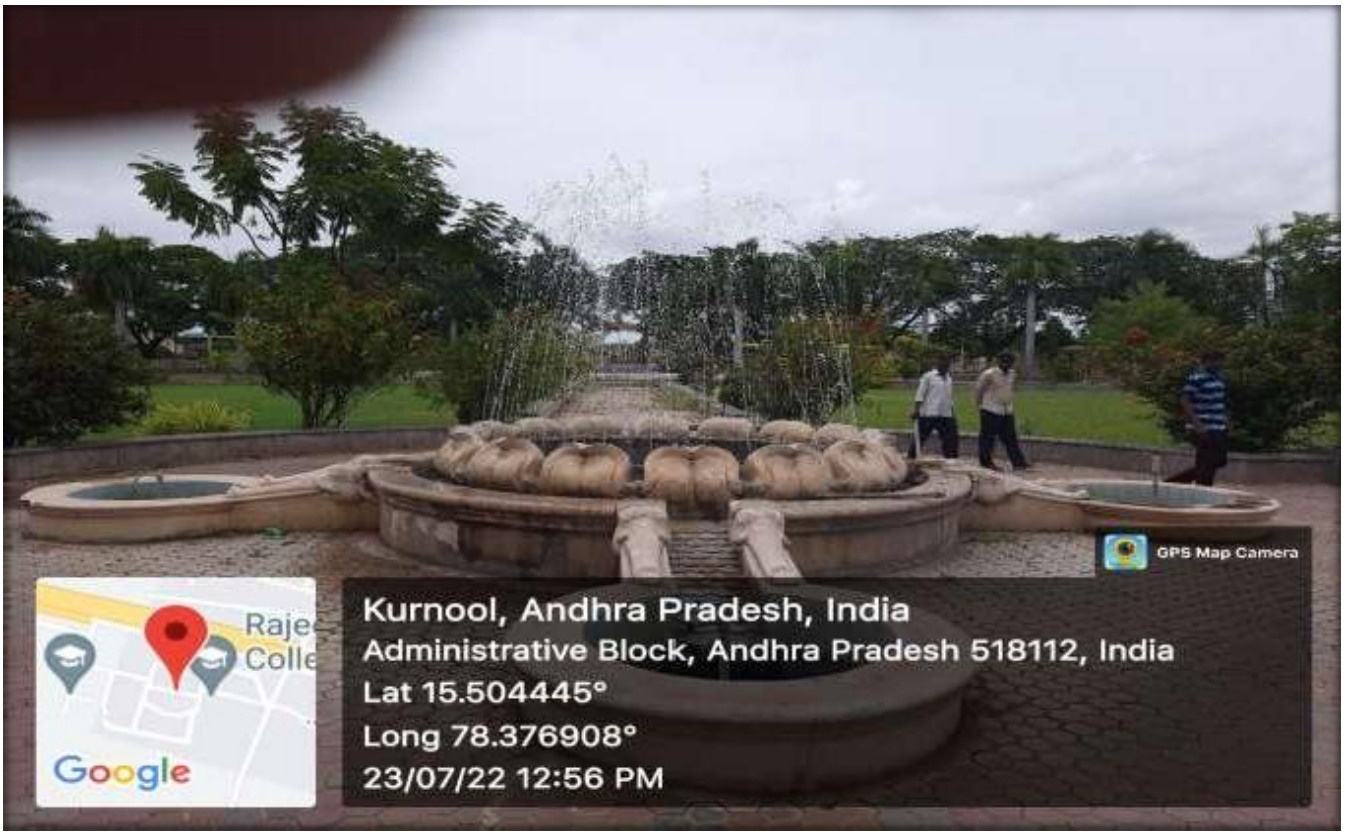
Maintenance of Water Bodies and distribution system in the campus:

A well-arranged pipe network connecting sumps and overhead tank to the water distributing Point is established to support all the needs of the college. Water distribution system on the campus is decentralized. All buildings have provisions of water tanks which connects to various places like laboratories, washrooms, and common areas. To facilitate required litres of water supply per day, college is well equipped with water sources. Ground water is also supplemented with rain water harvesting and sewage water treatment plant. Water is stored in construction tanks with a well-organized pipeline plan for each block. A separate maintenance team is available to maintain and monitor water level and pipe leakages. Drinking water after treating in RO plant is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes. Entire distribution system is well supervised by Maintenance department to ensure that there are no leakages and wastages of precious water through joints, valves etc. Waste usage of water is reduced using low pressure flushes. All the stakeholders of the college are well educated to use water economically and efficiently.



Water Distribution system in the Garden

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Water Distribution System in the Lawn

R O Water Plant in the Campus

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