7.1.4- Water conservation facilities available in the Institution: Rain water harvesting Bore well/Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus for the Academic Year 2023-2024

VAAGDEVI COLLEGES

VAAGDEVI COLLEGE OF PHARMACY

(Approved by AICTE & PCI, New Delhi & affiliated to Kakatiya University , Warangal, T.S)
Ramnagar Dist. Hanumakonda- 506001. (T.S)

POLICY DOCUMENT ON

WATER CONSERVATION INITIATIVES

VAAGDEVI COLLEGE OF PHARMACY
(Approved by AICTE & PCI, New Delhi & affiliated to Kakatiya University, Warangal, T.S)
Ramnagar Dist. Hanumakonda- 506001. (T.S)

INDEX

Water Conservative Initiatives

POLICY ON WATER CONSERVATION

The institute is equipped with a comprehensive water conservation and management system. Here's a breakdown of each component you mentioned:

1. **Rainwater Harvesting Pit:** This system collects and stores rainwater for later use. The collected rainwater can be used for irrigation, flushing toilets, and other non-potable needs, reducing reliance on freshwater sources.
2. **Bore Wells (2):** Bore wells are deep wells that access groundwater. Having two bore wells ensures redundancy and greater water supply reliability, especially during dry spells.
3. **Water Storage Tank:** A water storage tank stores water for future use. It helps in ensuring that there is a reserve of water available during times of water scarcity or when the supply is interrupted.
4. **Bund:** A bund is a dam-like structure built to store water. It can be used to capture and control water runoff, thereby preventing soil erosion and enhancing water retention in the area.
5. **Waste Water Recycling System:** This system treats wastewater (like sewage or grey water) to make it reusable for non-potable purposes, such as landscaping or industrial processes. This reduces the demand for fresh water and minimizes pollution.

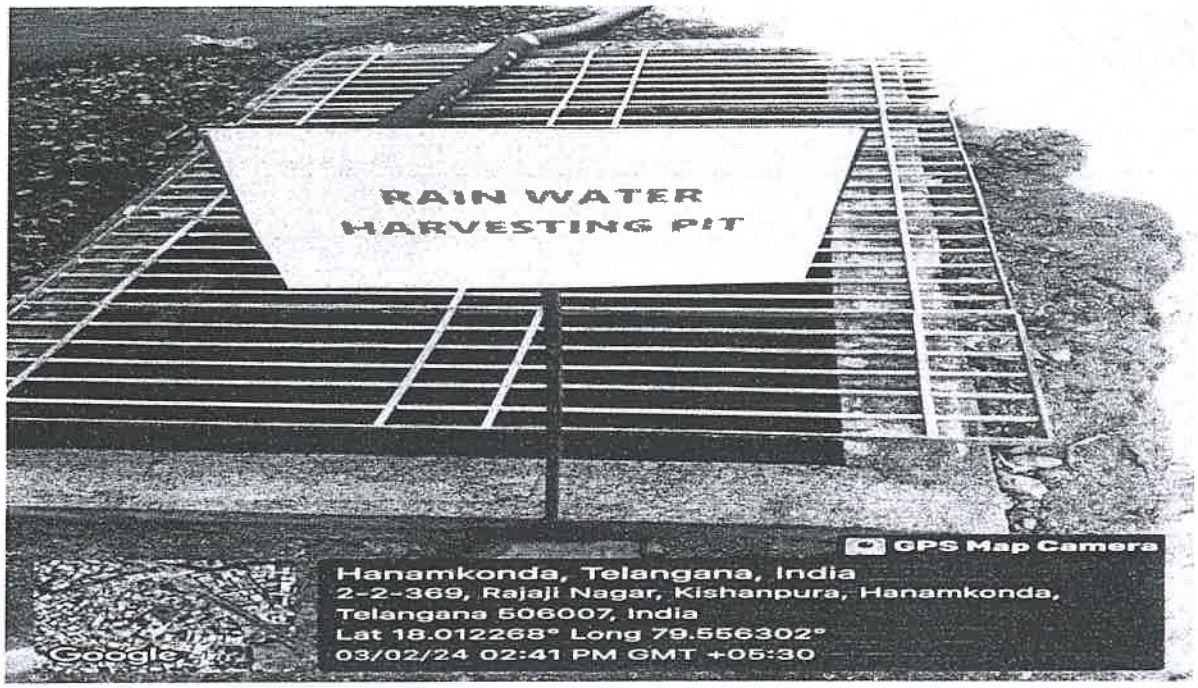
Vaagdevi College of Pharmacy Ramnagar, Hanamkonda

Principal
Vaagdevi College of Pharmacy
Hanamkonda, Warangal-506 001

6. **Distribution Systems for Water Conservation**: This includes piping, pumps, and channels that ensure efficient water distribution throughout the institute. It helps to optimize water usage by reducing wastage and ensuring water reaches the intended areas.

i) Rain Water Harvesting Pit

College is using rainwater harvesting to manage water resources and promote sustainability on campus. Rainwater harvesting, especially in places like open spaces with a high runoff coefficient and on rooftops, is an effective way to reduce dependency on external water sources, improve groundwater levels, and reduce surface runoff.



Rain Water Harvesting Pit

Principal
Vaagdevi College of Pharmacy
Hanamkonda, Warangal-506 001

ii) Borewell /Open well

The college has taken proactive measures to ensure sustainable water management by constructing bore wells within the premises. These bore wells are strategically placed to facilitate the recharge of groundwater, making use of stored rainwater. This approach helps in restoring the water levels in the bore wells, promoting efficient water conservation. To maintain the proper functioning of the bore wells, periodic monitoring is conducted. Plumbers regularly inspect and carry out essential repairs, ensuring the bore wells are kept in good working condition. This system plays a crucial role in maintaining a steady and reliable water source for the college, contributing to its overall sustainability efforts.

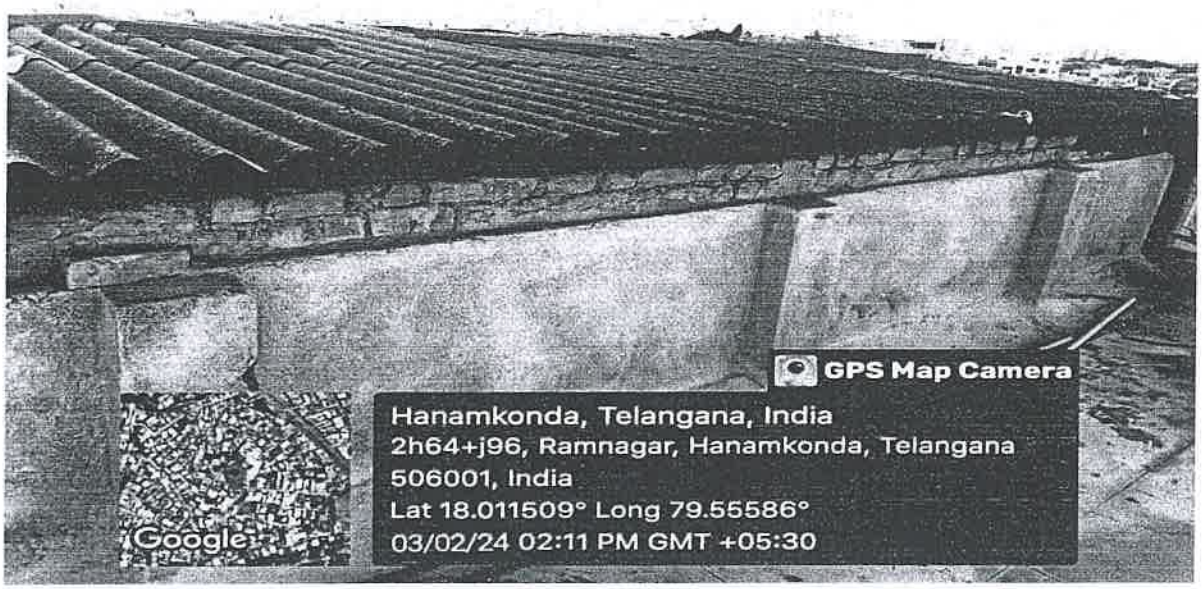
Bore well /Open well

Principal
Vaagdevi College of Pharmacy
Hanamkonda, Warangal-506 001

iii) Construction of Tanks and Bunds

Overhead water tanks are essential infrastructure in a campus, serving as a critical component of the water distribution system. These tanks are strategically located to store water for various daily needs within the campus, such as:

- **Gardening**: Ensuring a steady water supply for campus greenery, lawns, and plant care.
- **Restrooms**: Providing water for toilets, sinks, and other sanitary facilities.
- **Cleaning Purposes**: Supplying water for maintaining cleanliness throughout the campus, including the washing of walkways, hallways, and other common areas.

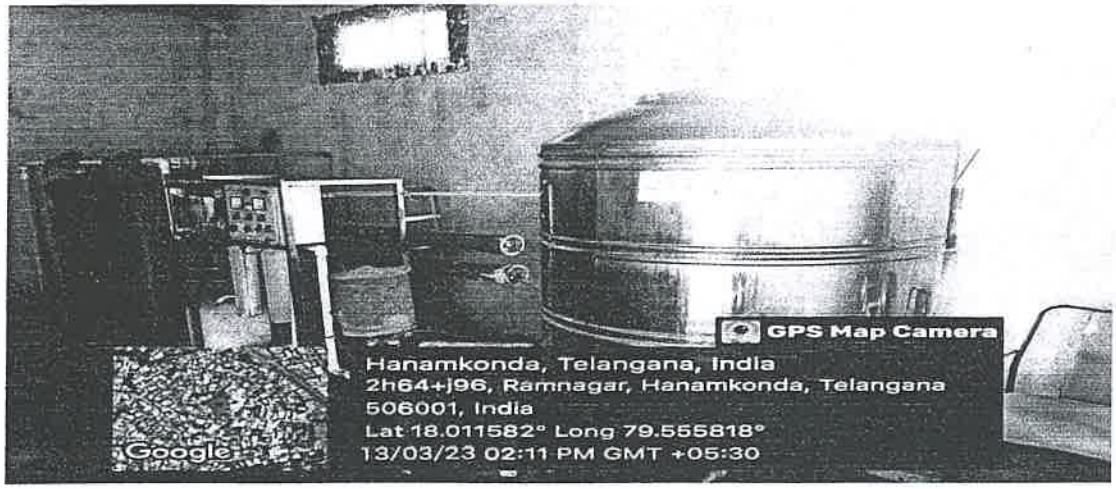


Water Tanks

Principal
Vaagdevi College of Pharmacy
Hanamkonda, Warangal-506 001

iv) Waste Water Recycling

Waste water is being generated on the campus from several sources, including the water plant, laboratories, and rainwater used for gardening.



RO Plant

Distribution waste water system to gardening and laboratories

Principal
Vaagdevi College of Pharmacy
Hanamkonda, Warangal-506 001

v) Maintenance of Water Bodies and Distribution System in the Campus

The campus is equipped with adequate facilities for the maintenance and management of water bodies, ensuring a reliable water distribution system to meet the diverse needs of users. A well-designed network of pipes efficiently channels stored water from the central source to various tanks located throughout the campus. This system is maintained to ensure consistent water availability for various purposes.

Water Distribution Systems in the College from the Tanks

Principal
Vaagdevi College of Pharmacy
Hanamkonda, Warangal-506 001

VAAGDEVI COLLEGE OF PHARMACY

(Approved by AICTE & PCI, New Delhi & affiliated to Kakatiya University, Warangal, T.S)
Ramnagar Dist. Hanumakonda- 506001, (T.S)

Water Distribution Systems in the College from the Tanks to Bath Rooms

Principal
Vaagdevi College of Pharmacy
Hanamkonda, Warangal-506 001