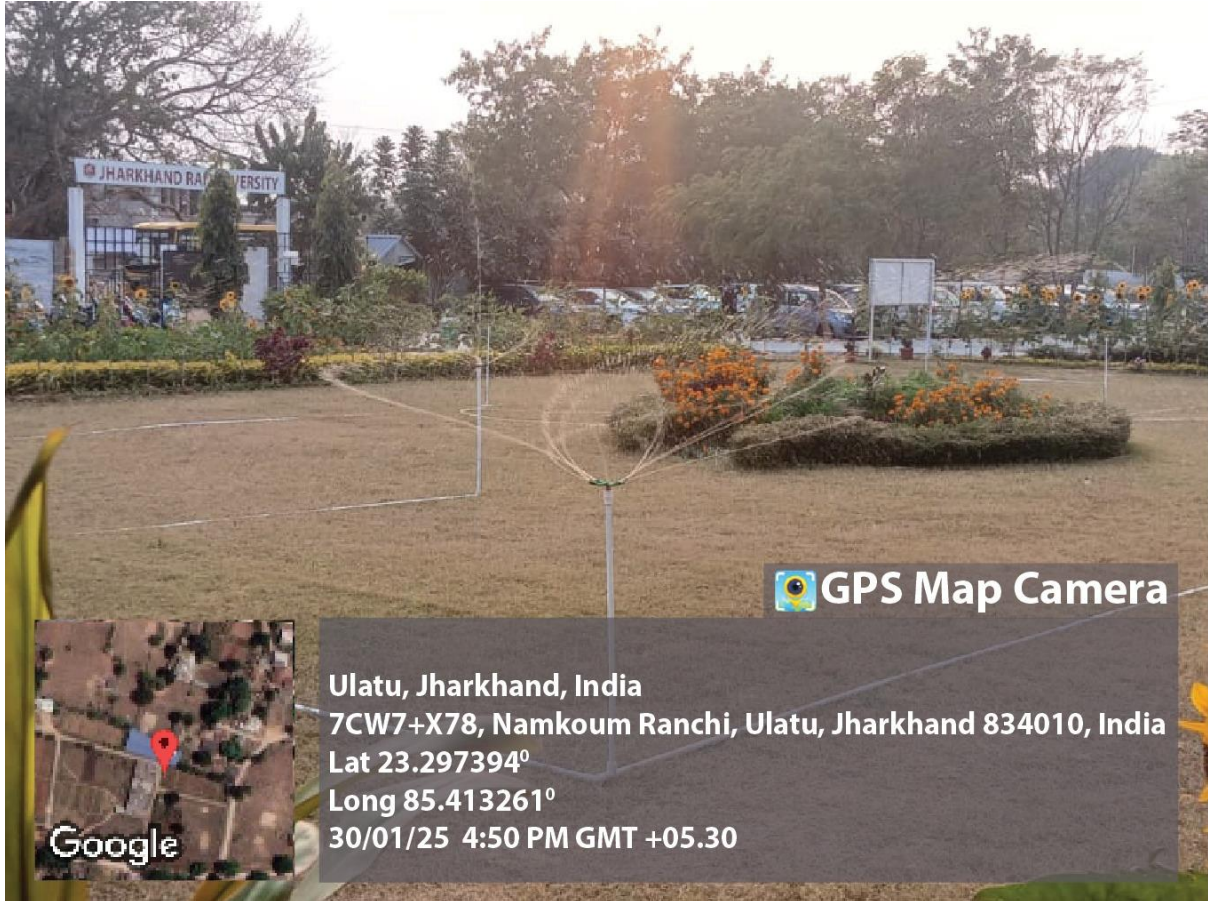


7.1.4 Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

The daily need of water in the campus is around 75,590 litre/Day (approx.) and the water available for daily usage is around 1,10,000 litre/day (approx.). Rainwater Harvesting in the campus is approx. 47,04,700 litre/year and the water recycled per day is approx. 12,889.59 Litres. Jharkhand Rai University has initiated various initiatives to utilize the natural resources to keep the environment healthy and eco-friendly.

- The stored water is utilized for plantation, irrigation, washing, draining and various other purposes also.
- Uniform distribution of water and best efficiency is adopted through sprinkler & drip irrigation
- The rain water coming from roof tops and that flowing within the campus is collected in percolation pits, constructed at all feasible points in the campus to recharge ground water. We have built ground tanks (Ponds) in the campus to collect and store the rainwater for reuse on-site, rather than allowing it as run off.
- Wastewater discharged as effluent from Laboratories and canteen wastewater is filtered & being used for gardening, watering of trees etc. The used water is redirected to soak pits, so that the ground water level can be maintained as well. This facility is also used for various agricultural purposes by the students of Department of Agriculture.
- Ensure minimum consumption of water by using low flow faucets & toilets, sensors & electronic controls wherever possible.
- Entire water distribution system is well supervised to ensure that there are no leakages and wastages of precious water through joints, valves etc.
- Initiatives have been taken to educate all the stakeholders of the University from time to time to conserve & use the water resource economically & efficiently.
- The ground water will be pumped into storage tanks located at different places in the campus. The water will be distributed through well laid pipe network. Drinking water after treating in RO plant will be supplied through a separate set of distribution pipes and water for all other purpose will be supplied through another set of distribution pipes.

- Irrigation through water Sprinkler method.



- **Drip Irrigation method**



- **Pond**



- Rain Water Harvesting System







GPS Map Camera

Ulatu, Jharkhand, India
7CW7+X78, Namkoum Ranchi, Ulatu, Jharkhand 834010, India
Lat 23.297393°
Long 85.413160°
30/01/25 4:20 PM GMT +05.30

23/01/2025 16:21

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