

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 60,000 litre/Day (approx.,) and the water available for daily usage is around 90,000 litre/day (approx.). Rainwater Harvesting in the campus is approx. 17,766,000 litre/Season and the water recycled per day is approx. 405.6 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.
- 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 at Namkum Campus.
- Uniform distribution of water and best efficiency is adopted through sprinkler & drip irrigation
- 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.
- 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.

Upcoming University Campus at Namkum, Ranchi:

Total area of the campus is about nearly 20 acres on that only area of 5 acres is proposed to be developed as academic zones and the balance area of about 15 acres (i.e., 75% of total area) has been earmarked for greenery. Additional facilities for effective use of water Resource in the Upcoming campus are as follows:

- The rain water coming from roof tops and that flowing within the campus will be collected in percolation pits, constructed at all feasible points in the campus to recharge ground water.
- Wastewater discharged as effluent from Laboratories and canteen wastewater is planned to be used for gardening, watering of trees etc.
- 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.







