

त्रिपुरा विश्वविद्यालय TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय / A Central University)

सूर्यमणिनगर, अगरतला / Suryamaninagar, Agartala

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CERTIFICATE

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 relevant and supporting documents for the above mentioned criteria are attached in annexures.


27/9/23
Registrar

(Dr. Deepak Sharma)
Registrar
Tripura University

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.

Currently, inside the institute, a large water body of 10.4 acres is present in the form of a natural lake. This water body is the centrepiece of the university's rainwater harvesting system. During the monsoon season, rooftop rainwater is efficiently funnelled into the lake via an elaborate network of rainwater outlets and reinforced concrete drains. This system replenishes groundwater levels and ensures a steady year-round water supply for campus use. A sluice gate and a semi-permanent structure have been installed to maintain a consistent water level. These measures regulate the lake's capacity, ensuring it remains a reliable source for recharging groundwater. Beyond this, the lake supports fish farming and irrigates orchards and other growing fields during the pre-monsoon period. The lake also aids the surrounding local community by providing irrigation support for agricultural fields. There is a rainwater harvesting mechanism in Academic Building 7. There are plans to increase the height of the sluice gate and the nearby embankment to increase the water level. The potable water on the campus is drawn from borewells and distributed through pipelines across the University Campus. The University Lake is cleaned of weeds, etc., from time to time, and fishes, including (GRASS-CARP) are released to clear the grasses that feed on them. Maintenance of the distribution system is carried out by the Engineering cell. Rooftop water tanks are regularly cleaned by the Campus labourers.





RAIN WATER HARVESTING:

Tripura University is blessed with a natural large water body measuring approximately 15 acres inside its premises. Naturally, this large lake serves the main purpose of rain water harvesting. During the rainy season water from the roof tops of the buildings directly fall into the lake through rain water outlets, RCC drains and recharges the ground water table throughout the year.



Rain water harvested in the Tripura University lake

WASTE WATER RECYCLING:

The stake holders of the residential quarters of Tripura University specially re-use the grey water which is obtained from the various domestic activities and they re-use the same water for gardening and vegetable fields etc. Also water recycling is done as per the direction of the competent authority in broader scale as and when required.

Maintenance of water bodies:

As Tripura University has a huge natural lake of 15 acres area and it is used for the water conservation. To maintain the water level throughout the year a sluice gate is installed and on the rear side of it a semi permanent structure is recently constructed. This sluice gate and the semi permanent structure have resulted the constant water level in the lake. This lake recharges ground water and supplies adequate supply of water through the pumps of the University. The following photographs of sluice gate and semi permanent structures are given below which have been constructed/ installed to conserve the water in the University Premises.





Photographs of sluice gate and semi permanent structure for conservation of water in Tripura University.