



Evidence(s) THE-Impact Ranking



HEI: **TRIDENT ACADEMY OF TECHNOLOGY**

COUNTRY: INDIA

WEBSITE: <https://tat.ac.in/activities/>

6.3.4 WATER-CONSCIOUS BUILDING STANDARDS

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Plate 1- Rain water harvesting

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This institution in Odisha stands out for its advanced approach to wastewater management and environmental stewardship. The unique biotech lab operates as a dedicated testing facility, where wastewater undergoes rigorous weekly assessments for Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD), along with other biological tests. This stringent testing ensures that the treated water meets quality standards before it is released into the municipal sewage system, safeguarding public health and the environment. In addition to wastewater treatment, the institution also manages rainwater effectively. The rainwater collected on-site is filtered, disinfected, and then reused, aligning with sustainable water management practices. This initiative not only conserves water but also reduces the institution's demand on external water resources, promoting water-conscious infrastructure in line with Sustainable Development Goals. This institution's holistic approach to wastewater treatment and rainwater reuse demonstrates a commitment to sustainability, serving as a model for other organizations aiming to adopt eco-friendly and efficient water management practices.

Description

By 2023, Trident Academy of Technology has implemented water-conscious building standards to minimize water usage across its campus. These standards focus on incorporating



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water-efficient technologies, such as low-flow fixtures, smart irrigation systems, and rainwater harvesting, into the design and construction of campus buildings. The goal is to reduce overall water consumption and promote sustainability by conserving water resources. These measures reflect the institution's commitment to environmental stewardship and responsible water management, ensuring that the campus operates efficiently while minimizing its ecological footprint.