



SUSTAINABLE DEVELOPMENT GOALS



Progress Report 2024-2025

6 CLEAN WATER AND SANITATION



Trident Academy of Technology



SDG 6 CLEAN WATER AND SANITATION



TRIDENT ACADEMY OF TECHNOLOGY LAB ANALYSIS REPORT				
SAMPLE COLLECTION DATE	SAMPLE COLLECTION SOURCE [BH-1 (STP)]	TEMP IN °C	BOD (mg/l)	COD (mg/l)
18/03/24	(do)	25	3.52	6.4
15/04/24	(do)	26	3.4	4.08
23/04/24	(do)	25	3.6	4.32
29/04/24	(do)	26	3.5	4.24
7/5/2024	(do)	22	3.8	4.56
13/05/24	(do)	25	4.2	5.46
20/05/24	(do)	25	4.4	5.7
27/05/24	(do)	25	4.7	5.64
3/6/2024	(do)	26	4.5	5.4
26/09/24				
1/10/2024	BH-1 (STP)	25		8.4



Trident Academy of Technology monitors its monthly water consumption, totaling 4,122.01 KL. Hostels account for 3,094.2 KL, while kitchen and toilets consume 509.88 KL. Gardening, drinking, and other uses make up the rest. Continuous tracking supports water conservation and efficient management.

A 150 KLD Sewage Treatment Plant (STP) manages wastewater from hostels, canteens, and laboratories. The treated water is used for gardening, ensuring sustainability and environmental compliance.

Regular BOD and COD tests are conducted weekly to monitor wastewater quality. The STP maintains BOD levels between 3.2-4.7 mg/L and COD levels between 4.32-8.4 mg/L, ensuring treated water meets environmental standards before reuse or discharge.

The institution provides UV-purified drinking water on every floor of academic buildings and in hostels. An Atmospheric Water Generator produces 80 liters of clean water daily, reducing plastic use and supporting sustainability.

By 2023, Trident incorporated water-efficient designs, including rainwater harvesting, low-flow fixtures, and smart irrigation systems, to reduce consumption and align with sustainable infrastructure goals.

Trident showcased water-efficient landscaping at the NALCO Flower Show, winning recognition for drought-resistant plants and eco-friendly campus planting practices. The institution organized annual tree drives with a 70% survival rate.

The Water Reuse Policy promotes rainwater harvesting, greywater recycling, and wastewater reuse for non-potable purposes. It supports sustainable water management across campus operations.

A monitoring system tracks reused water volumes for irrigation, cooling, and sanitation. The total monthly water usage of 4,122.01 KL helps evaluate efficiency and optimize reuse strategies.

World Water Day is celebrated with seminars and workshops on water conservation and rooftop rainwater harvesting. The campus also conducts community outreach to promote sustainable water management.

Trident encourages responsible water use through awareness drives, reuse policies, and practical initiatives. Events like World Water Day inspire students and staff to implement sustainable water-saving practices.

