



# SUSTAINABLE DEVELOPMENT GOALS



Progress Report 2024-2025

15 LIFE ON LAND

Trident Academy of Technology





# SDG 15 LIFE ON LAND

## Events About Sustainable Use of Land

Trident Academy of Technology conducted several initiatives to promote sustainable land use and environmental stewardship. The 'Greenathon' plantation drive united students and faculty in planting trees to combat climate change. An Agro-Tourism Exposure Visit to Puri educated students about sustainable farming and rural livelihoods, while a massive tree plantation campaign enhanced the campus's green cover. These initiatives foster environmental awareness and active student engagement in sustainability.

## Maintain and Extend Ecosystem Biodiversity

The Kartavya Club led a Plogging Drive along the Mahanadi River and a Coastal Cleanup at Puri Beach, merging physical activity with environmental responsibility. These events promoted cleanliness, reduced plastic waste, and preserved marine life. Trident's student, Mr. Manas Ranjan Senapati, was honored by Odisha's Forest Department for his efforts in forest protection. Collectively, these initiatives reflect Trident's commitment to biodiversity and conservation.

## Sustainable Use, Conservation, and Restoration of Land Policy

Trident's Sustainable Policy (effective April 2021) promotes eco-friendly infrastructure using locally sourced laterite blocks and native vegetation. The initiative enhances biodiversity and supports habitat restoration while involving students in conservation and plantation drives. The policy also integrates economic and medicinal plants, reinforcing sustainable land management and environmental education.

## Monitoring IUCN and Conservation Species Policies

The institution aligns with IUCN conservation principles by maintaining habitats for native species through sustainable landscaping. Seminars and conclaves educate students on biodiversity preservation. The policy supports protection of bird and small mammal populations while promoting awareness and research on threatened species.

## Water Discharge Guidelines and Standards

Trident operates a 150 KLD solar-powered water treatment plant that purifies 150,000 liters daily for reuse in gardening. Regular BOD and COD testing ensures treated water meets environmental standards. Results show BOD levels (3.2-4.7 mg/L) and COD levels (4.32-8.4 mg/L), confirming effective wastewater management. These measures exemplify TAT's commitment to sustainable water discharge and pollution control.

## Policy on Plastic Waste Reduction

The Plastic Waste Reduction Policy focuses on minimizing single-use plastics and promoting recycling across campus. Awareness campaigns, recycling bins, and reusable alternatives foster a culture of sustainability. The 'Plastic-Free Campus' initiative aligns with global environmental goals, encouraging eco-conscious behavior among students and staff.

## Policy on Hazardous Waste Disposal

TAT enforces a structured Chemical and Hazardous Waste Management Policy under the Environment (Protection) Act, 1986. Waste is segregated into biodegradable, non-biodegradable, and hazardous categories. Composting, recycling, and regulated disposal prevent contamination. The Chemical Waste Disposal Committee ensures compliance, safe labeling, and monitoring of all hazardous materials.

