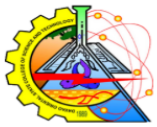
SDG 15: 15.4.1. Water discharge guidelines and standards. Have water quality standards and guidelines for water discharges (to uphold water quality in order to protect ecosystems, wildlife, and human health and welfare)

1. Davao Oriental State College of Science and Technology (DOSCST) implemented a wastewater management project through the construction of a Vertical Helophyte Filter System (VHFS) at its Main Campus in Guang-guang, Dahican, Mati City. The system uses layered filter materials and reed-bed vegetation to treat wastewater and reduce pollutants, including biological oxygen demand (BOD), chemical oxygen demand (COD), suspended solids, and coliform bacteria. Designed as a nature-based secondary treatment system, it aims to improve wastewater quality, reduce the risk of water pollution, and help protect public health and natural water resources. The project was reported as 100% completed in the 2018–2020 report.



DAVAO ORIENTAL STATE COLLEGE OF SCIENCE AND TECHNOLOGY

REPORT OF COMPLETED RESEARCH

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PART I. BASIC INFORMATION

Research Title: Wastewater Management in Davao Oriental State College of Science and Technology Main Campus Using Vertical Helophytes Filter System (VHFS) and Phytoremediation Plants for Heavy Metal Absorption

Project 1 Title: Construction of Vertical Helophyte Filter (VHFS) at Davao Oriental State College of Science and Technology, Guang-guang, Dahican, Mati City

Research Scale: PROGRAM

Researcher/s: Amy G. Ponce, Dr. Edito B. Sumile and Dr. Roy G. Ponce

Name: Amy G. Ponce

Institutional Affiliation: Lecturer

Respective Role in the Research Program Leader

Implementing Unit: DOSCST Main Campus

Lead: DOSCST

Collaborators: DOST, UIC

Duration (number of months): 1 YEAR

Source: https://docs.google.com/document/d/11R9FnS2wYbm81RhVDa9Z-CuRG0worETG/edit