



# REPORT

## WATER FILTRATION SYSTEM PROJECT

**Prepared by**  
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**Sponsored by**  
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## OVERVIEW

The project to install two water filtration systems in Dakrong District, Quang Tri Province, aims to improve the quality of drinking water for children in areas lacking access to clean water, thereby contributing to the enhancement of community health.

**Name of project:** Water Filtration System

**Sponsor:** Twin City Kiwanis Foundation

**Total of funds:** 4,500 USD

**Implementing organization:** Children of Vietnam

**Location:**

- Ta Long Kindergarten, Ta Long Commune, Dakrong District, Quang Tri Province
- Dakrong Primary School No. 2, Dakrong Commune, Dakrong District, Quang Tri Province

**Implementation period:** September 1, 2024 to December 31, 2024



**771**  
CHILDREN

**72**  
TEACHERS

**02**  
SYSTEMS

## SCHOOL BACKGROUND AND WATER SOURCE PROFILE

### 1. Ta Long Kindergarten, Ta Long Commune, Dakrong District, Quang Tri Province:

- Located in a border commune categorized as a particularly disadvantaged area for ethnic minorities and mountainous regions of Quang Tri Province, the area features complex terrain, sparsely populated residential zones, and a predominantly agricultural livelihood with unstable jobs and low income, leading to significant economic difficulties. Most students at the school belong to the Bru-Van Kieu ethnic minority. The school has 349 students with 39 teachers and staff.
- Currently, the school has three drilled wells that provide sufficient water for the children. However, the water from these wells contains a high level of lime, requiring filtration before being used for the children. Although the school has installed three water filtration machines, these machines are now damaged. Despite multiple repairs, the water filtration systems still fail to meet the quality standards needed for teachers and students to use.



### 2. Dakrong Primary School No. 2, Dakrong Commune, Dakrong District, Quang Tri Province:

- Situated in a particularly disadvantaged commune for ethnic minorities and mountainous regions of the province, the area features complex terrain, sparse population, and significant economic challenges for residents. Most students at the school are from ethnic minority communities. The school has 422 students with 36 teachers and staff.
- The school has one drilled well that provides sufficient water for usage; however, the water contains a high level of lime, making it unsafe for direct consumption. To address this issue, the school has purchased small water bottles to provide safe drinking water for the students.

## SCHOOLS' DEMANDS

The schools were in great need of water filtration systems to provide students with clean and safe drinking water. These systems would reduce reliance on purchased water and ensure that both students and teachers have access to healthier and purer water sources. By improving water quality, the systems help protect students from waterborne diseases and illnesses related to contaminated water, such as diarrhea, supporting their overall well-being and academic performance.

## PROJECT IMPLEMENTATION

With the support from the Twin City Kiwanis Foundation, COV carried out the installation of 02 RO pure and clean water filtration systems (with a capacity of 180 liters/hour) in Ta Long Kindergarten and Dakrong Primary School No. 2. Before that, COV conducted a needs assessment at the schools to ensure an appropriate position for installing the systems as well as some required criteria of the program, such as the number of students, water sources—water testing, locations, etc.

The RO water filtration system is the most modern and safest water treatment equipment in the region. This is a sophisticated and complex system with different components such as an RO membrane and functional filter core systems (03 raw filter pillars), a cotton filter core with a size of below 0.5 micrometers, a UV sterilizing machine, and a water pump. The RO membrane uses reverse osmosis technology with multiple filtration levels. Especially, the RO membrane, with the size of filter holes of only 0.0001 microns (that is 10,000 times smaller than the diameter of a human hair), is able to remove up to 99.99% of chemicals, organic solids, dregs, viruses, bacteria, and other compounds that may harm people's health.



*The two RO systems recently installed in Ta Long Kindergarten and Dakrong Primary School No. 2 by COV.*



*Location of schools with new water filtration systems*

## FINANCIAL REPORT

PERIOD	DONATIONS	OVERHEAD COST	PROJECT EXPENSES	FUND BALANCE
<b>September 1, 2024 to December 31, 2024</b>	\$4,500	\$530	\$3,970	\$0



School children are now drinking clean water from the newly installed filtration system.



**"I am so happy because I can drink water freely every day at school."**

*Ho Thi Bich Tue, a student of Dakrong Primary School No. 2*





## CONCLUSION

At the handover meeting, school administrators, teachers, and local authorities expressed their deep gratitude to COV and the Twin City Kiwanis Foundation for the water filtration systems and made a commitment to managing and using them for the right purpose. The schools also have the responsibility for periodic water checks and tests to ensure the good operation of the systems and to abide by the existing regulations for testing water in schools.

The project of installing two water filtration systems in Quang Tri Province has delivered significant results, contributing to improving the quality of life for residents. With the support from the Twin City Kiwanis Foundation and collaboration from relevant stakeholders, we are confident that the project will continue to demonstrate its effectiveness and expand further in the future.