

# WASH PROGRAM

Water, Sanitation and Hygiene - Boeny Region, Madagascar

**⚠ Confidential Document** - General program presentation. For technical specifications, water treatment protocols and complete data, please contact the author.

## Program Overview

The **WASH Program** (Water, Sanitation and Hygiene) aims to improve access to safe drinking water, sanitation facilities and hygiene practices in rural communities in the Boeny region. The program adopts an integrated approach combining infrastructure, education and local capacity building.

## The Challenge

Waterborne diseases represent a major cause of morbidity and mortality in rural areas of Madagascar. The lack of access to safe drinking water, inadequate sanitation infrastructure and poor hygiene practices contribute to the spread of diarrheal diseases, parasitic infections and other illnesses.

**5,000+**

BENEFICIARIES

**20**

TARGET VILLAGES

**65%**

WITHOUT SAFE WATER ACCESS

**36 months**

PROGRAM DURATION

## The Three Pillars of WASH



**WATER**

Access to safe drinking water in sufficient quantities for all

**SANITATION**

Adequate sanitation facilities and waste management

**HYGIENE**

Appropriate hygiene practices and behavior change



## Proposed Technical Solutions

### Technologies Adapted to Local Context

- **Ceramic filters:** Household water purification, locally manufactured
- **Improved wells:** Boreholes equipped with durable hand pumps
- **Rainwater harvesting systems:** Family and community cisterns
- **Solar disinfection (SODIS):** Simple and free method
- **Ecological latrines:** Urine-diverting dry toilets (UDDT)
- **Handwashing stations:** Tippy-taps and contactless devices



## Program Objectives

- Provide access to safe drinking water for 5,000 people in 20 villages
- Reduce diarrheal diseases by 40% in intervention areas
- Build or rehabilitate 200 family and community latrines
- Train 100 community agents in WASH and water quality
- Achieve 80% adoption of handwashing at critical times
- Establish sustainable local water management committees



## Intervention Approach

### 1. Water Infrastructure

- Installation of ceramic filters
- Well rehabilitation
- Water catchment systems
- Community water points

### 2. Sanitation

- Construction of UDDT latrines
- Solid waste management
- Wastewater drainage
- Ecological composting

### 3. Education & Awareness

- Hand hygiene campaigns
- Water quality education
- WASH clubs in schools
- Community theater

### 4. Capacity Building

- Training of local artisans
- Water management committees
- Community health agents
- Preventive maintenance



## Monitoring Indicators

- Number of people with access to safe water (distance < 500m)
- Incidence rate of diarrheal diseases
- Percentage of households with functional latrines
- Proportion of people practicing handwashing
- Bacteriological water quality (E. coli, coliforms)
- Functionality rate of infrastructure after 12 months



## Expected Impact

- Significant reduction in waterborne diseases
- Improvement in maternal and child health
- Reduction in disease-related school absenteeism
- Time savings (especially for women and girls)
- Improved dignity and security
- Creation of local jobs (manufacturing, maintenance)
- Strengthening of community resilience



Interested in This Program?

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Contact me for technical specifications, water testing protocols and partnership opportunities

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Presentation document - Public version

Detailed technical protocols available upon request

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