REPORT HAMBARITA WATER CONNECTIONS - PHASE I

WAI KAHINGIR

SCAN HERE
To view the location of each ferrocement water tanks

HAMBARITA WATER CONNECTIONS
PHASE I - ACCESS TO CLEAN WATER FOR THE HAMBARITA COMMUNITY

FEROCEMENT TANK 4,4 m^3
WAI KAHINGIR

BUILT BY HAND & TOGETHERNESS

The Wai Kahingir (Clean Water) Ferrocement Tank, which was completed on June 15, 2025, is a water tank that was built manually by the hands of local residents, including its foundations.

Located in the **Nggada Yabu** family home, this house can accommodate ±15 people. It was built using cement, sand, wire, water, and most importantly, mutual cooperation and solidarity.

USAGE CAPACITY

Daily water necessities:
15 people × 16 liters = 240 liters
→ 4.400 ÷ 240 = around 18 days
This means that this tank is sufficient for ±18 days.

WHY IS THIS IMPORTANT?

This tank is used for:
- Drinking & Cooking
- Bathing & Washing
- Basic Hygiene & Health Needs

SCAN HERE
To view the Facility Map
More information:
kawanbaikindonesia.org
+62 818 0220 0818

Wai Kahingir Tank

Radius (r) :	77 cm
Height (h) :	244 cm
Thickness (t) :	3 cm
π :	22/7 or 3,14

Tank Volume Formula

$V = \pi \times r^2 \times h$

To calculate the volume (V) in the tank, first find (r - t) before using the volume formula

Field Implementation Team:

kawan baik

Donations and Support by:

FAIR FUTURE FOUNDATION

Rotary

WAI KAHINGIR 4.400 litres

Ferrocement Water Tank Data

1	Subdistrict	Waingapu City
2	Village	Pambota Njara
3	Neighborhood	Hambarita
4	RT / RW	06/03
5	Number of Houses	3
6	Number of Families	4
7	Total Residents	16
8	Name of Regional Head/Community Leader	Diki Takanjanji
9	Phone Number of Regional Head/Community Leader	+6282266267520
10	Number of people present at the meeting	7
11	Number of Existing Water Source Points	The available water sources are seepage water collected in stone excavations (Kullup) and these water sources will dry up in the dry season, so people maximize their rainwater harvesting and buy tank water during the dry season.
12	Problems Faced	Lack of sufficient storage for daily clean water needs
13	Assistance that Hambarita residents have received regarding clean water	-
14	Distance from Rumah Kambera - Location (km)	28 KM
15	GPS Location Link	74XV+WHJ Pambotanjara, Kabupaten Sumba Timur, Nusa Tenggara Tim.
16	Name of Person in Charge of the Ferrocement Water Tank	Nggada Yabu
17	Whose land is the land used for construction on?	Nggada Yabu
18	Distance from the ferrocement water tank to the nearest house (meters)	16
19	Distance from the ferrocement water tank to the farthest house (meters)	4
20	How far is the ferrocement water tank from the nearest house roof (meters)	5 meter
21	House Size	4 meter X 6 meter
22	Roof Rain Gutter Requirements	3 pieces
23	Are residents willing to cooperate in the construction of the reservoir?	Ready to work together and actively participate

Cost Summary of Wai Kahingir

Water Tank Names	Building Ferrocement Water Tank	Construction of rainwater harvesting and filter installation	Monitoring and Evaluation	TOTAL BUDGET
WAI KAHINGIR	Chf. 1307	Chf. 527	Chf. 215	**Chf. 2049**

The Story of the Wai Kahingir

Construction of the second ferrocement water tank commenced on June 5, 2025, and within four days, it had reached 70% completion. The stages included site clearing, foundation construction, installation of the mall and reinforcement, and exterior plastering. A parallel work strategy and active community participation accelerated the process.

The main obstacle was two days of heavy rain, which delayed casting and plastering. The team adjusted the schedule to accommodate the weather conditions, ensuring quality was maintained. Work continued the following week, focusing on pipe installation, cap casting, plastering, and painting, with a target completion date of mid-June.