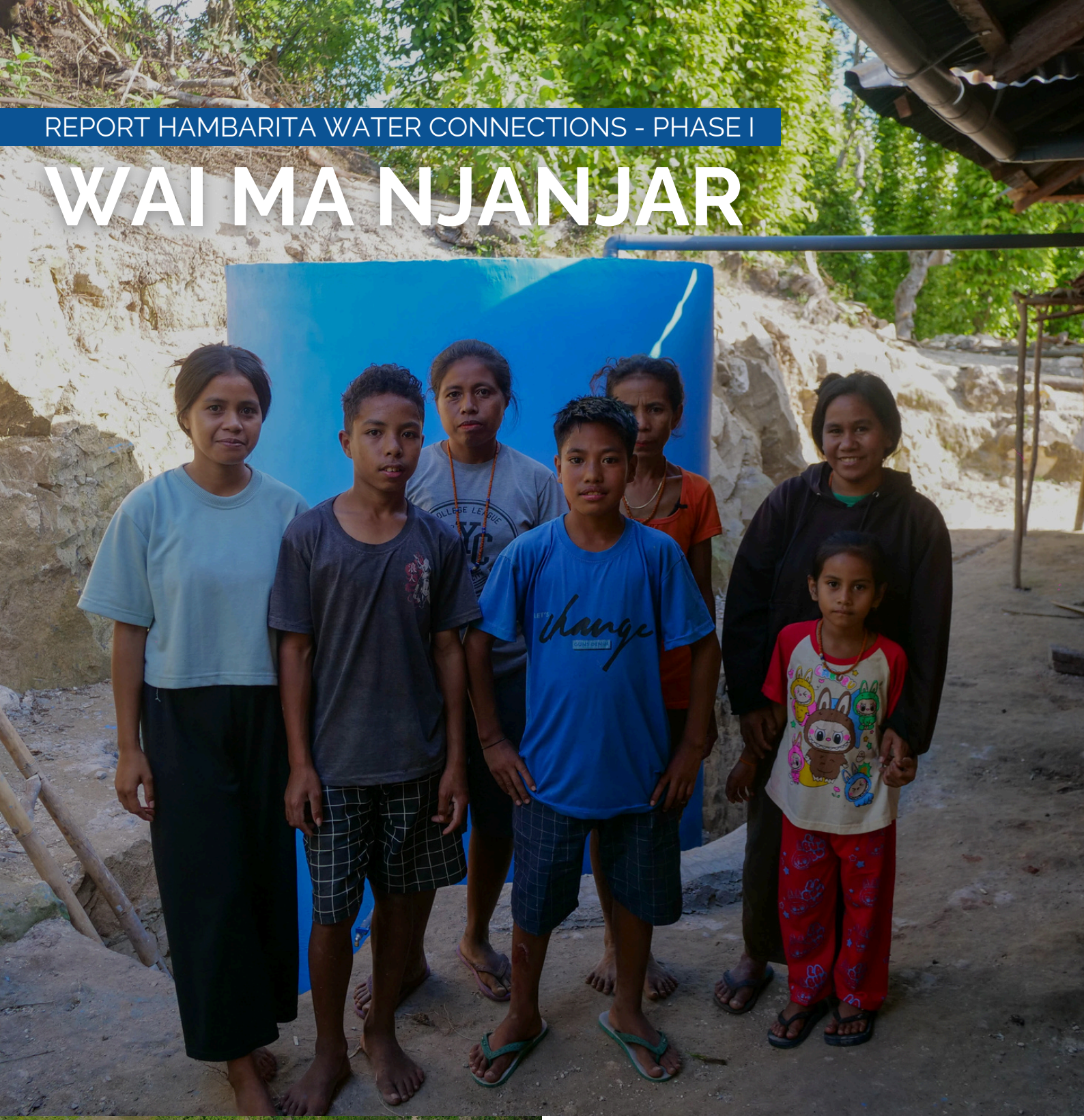
REPORT HAMBARITA WATER CONNECTIONS - PHASE I

WAI MA NJANJAR



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 5,3 m^3
WAI MA NJANJAR

BUILT BY HAND & TOGETHERNESS

The Wai Ma Njanjar (Water Flow) Ferrocement Tank, which was completed on June 29, 2025, is a water tank that was built manually by the hands of local residents, including its foundations.

Located in **Kaita Rina** family home, this house can accommodate ±15 people. It is semi-burried to maintain temperature and prevent contamination. It was built using cement, sand, wire, water, and most importantly, teamwork and solidarity.

USAGE CAPACITY

Daily water necessities:
15 people × 16 liters = 240 liters
→ 5.300 ÷ 240 = around 23 days
This means that this tank is sufficient for ±23 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 Ma Njanjar Tank

Radius (r) :	85 cm
Height (h) :	244 cm
Thickness (l) :	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 - l) before using the volume formula

Field Implementation Team:

kawan baik

Donations and Support by:

FAIR FUTURE FOUNDATION

Rotary

WAI MA NJANJAR 5.300 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	3
7	Total Residents	13
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	8
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	75X2+WF4 Pambotanjara, Kabupaten Sumba Timur, Nusa Tenggara Tim.
16	Name of Person in Charge of the Ferrocement Water Tank	Kaita Rina
17	Whose land is the land used for construction on?	Kaita Rina
18	Distance from the ferrocement water tank to the nearest house (meters)	19
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)	2
21	House Size	12 meter X 9 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 Ma Njanjar

Water Tank Names	Building Ferrocement Water Tank	Construction of rainwater harvesting and filter installation	Monitoring and Evaluation	TOTAL BUDGET
WAI MA NJANJAR	Chf. 1301	Chf. 534	Chf. 215	**Chf. 2050**

The Story of the Wai Ma Njanjar

Construction of the ferrocement water tank at Wai Ma Njanjar began with the construction of the frame, spokes, and the casting of the foundation. The design was adjusted by increasing the spokes to 85 cm + 85 cm to achieve a capacity of 5,300 litres. The size change created gaps in the mould, so two 35 cm wide planks were added to widen the perimeter of the basin.

The second week focused on finishing, painting, piping installation, faucet installation, and cleaning the surrounding area. The ferrocement water tank was completed at optimal capacity and is ready for public use.