

WAI MARINGU



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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 m³ WAI MARINGU

BUILT BY HAND & TOGETHERNESS

The Wai Maringu (Cold Water) Ferrocement Tank, which was completed on July 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 is semi-buried 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 x 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



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To view the Facility Map

More information:
kawanbaikindonesia.org
+62 818 0220 0818

Wai Maringu 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

 **FAIR FUTURE**
FOUNDATION

Donations and Support by:

Rotary 

WAI MARINGU 5.300 litres

Ferrocement Water Tank Data

1	Subdistrict	Waingapu City
2	Village	Mbatakapidu
3	Neighborhood	Laindatang
4	RT / RW	10/05
5	Number of Houses	3
6	Number of Families	3
7	Total Residents	14
8	Name of Regional Head/Community Leader	Keba Lamu
9	Phone Number of Regional Head/Community Leader	+6281232370362
10	Number of people present at the meeting	6
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	Sanitation Assistance (Unused condition due to lack of water)
14	Distance from Rumah Kambera - Location (km)	28 KM
15	GPS Location Link	74WX+Q88 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)	14
19	Distance from the ferrocement water tank to the farthest house (meters)	3
20	How far is the ferrocement water tank from the nearest house roof (meters)	4 meter
21	House Size	5 meter X 6 meter
22	Roof Rain Gutter Requirements	3 pieces
23	Are residents willing to cooperate in the construction of the reservoir?	Residents are ready to cooperate and be actively involved

Cost Summary of Wai Maringu

Water Tank Names	Building Ferrocement Water Tank	Construction of rainwater harvesting and filter installation	Monitoring and Evaluation	TOTAL BUDGET
WAI MARINGU	Chf. 1335	Chf. 515	Chf. 215	Chf. 2065

The Story of the Wai Maringu

In the first week, the Wai Maringu group's construction of the ferrocement water tank reached the second layer of plastering on the inside. The process progressed quickly thanks to the active participation of the community, who worked together until late at night, and favourable weather conditions, ensuring smooth and efficient work.

The 5th ferrocement water tank was completed on July 14-16, 2025, after a delay of several days while the technical team focused on constructing the 6th ferrocement water tank in Wai Pandulang. As progress at that location neared completion, the team returned to Wai Maringu to complete the work. Thus, both ferrocement water tanks were completed simultaneously.

