



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

# FEROCEMENT TANK 5,3 m<sup>3</sup>

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-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

Thickness (l): π: 22/7 or 3.14

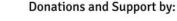
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Wai Maringu Tank

#### Tank Volume Formula $V = \pi x r^2 x h$

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

Field Implementation Team:









# WAI MARINGU 5.300 litres

### **Ferrocement Water Tank Data**

	T	T	
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 5<sup>th</sup> ferrocement water tank was completed on July 14-16, 2025, after a delay of several days while the technical team focused on constructing the 6<sup>th</sup> 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.







