

WAI LA WURUNG



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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 LA WURUNG

BUILT BY HAND & TOGETHERNESS

The Wai La Wurung (Water in a Pot) Ferrocement Tank, which was completed on July 5, 2025, is a water tank that was built manually by the hands of local residents together with the foundation.

Located in the **Ndlu Hamba Meha** 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 La Wurung Tank

Radius (r): 85 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:



Donations and Support by:



WAI LA WURUNG 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	4
7	Total Residents	24
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	10
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	74VV+RHV Pambotanjara, Kabupaten Sumba Timur, Nusa Tenggara Tim.
16	Name of Person in Charge of the Ferrocement Water Tank	Ndilu Hamba Meha
17	Whose land is the land used for construction on?	Ndilu Hamba Meha
18	Distance from the ferrocement water tank to the nearest house (meters)	24
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)	4 meter
21	House Size	7 meter X 9 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 La Wurung

Water Tank Names	Building Ferrocement Water Tank	Construction of rainwater harvesting and filter installation	Monitoring and Evaluation	TOTAL BUDGET
WAI LA WURUNG	Chf. 1337	Chf. 507	Chf. 215	Chf. 2059

The Story of the Wai La Wurung

Construction of the ferrocement water tank at Wai La Wurung has been completed, measuring 85 cm in diameter and 241 cm in height. Work began with site clearing, excavation, foundation casting, reinforcement installation, and the final casting of the cover on June 28, 2025.

The entire process was technically supervised to ensure the quality of the mix and structural accuracy, and community participation was encouraged in transporting materials. In the second week, the finishing phase, which included polishing, painting, and cleaning the area, was completed, declaring the entire project finished.

