

REPORT HAMBARITA WATER CONNECTIONS - PHASE I

WAI LA PADANG



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 m³ WAI LA PADANG

BUILT BY HAND & TOGETHERNESS

The Wai La Padang (Water in the Field) Ferrocement Tank, which was completed on August 7, 2025, is a water tank that was built manually by the hands of local residents, including its foundations.

Located in the home of **Jhoni Mbulu Manggal** family, 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 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

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Wai La Padang 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:

kawan baik

Donations and Support by:

FAIR FUTURE
FOUNDATION

Rotary

WAI LA PADANG 5.300 litres

Ferrocement Water Tank Data

1	Subdistrict	Waingapu City
2	Village	Mbatakapidu
3	Neighborhood	Hambarita
4	RT / RW	09/05
5	Number of Houses	3
6	Number of Families	3
7	Total Residents	15
8	Name of Regional Head/Community Leader	Jhoni Mbulu Mangal
9	Phone Number of Regional Head/Community Leader	+6282322584559
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	Sanitation Assistance (Unused condition due to lack of water)
14	Distance from Rumah Kampera - Location (km)	28 KM
15	GPS Location Link	843W+G83 Pambotanjara, Kabupaten Sumba Timur, Nusa Tenggara Tim.
16	Name of Person in Charge of the Ferrocement Water Tank	Jhoni Mbulu Manggal
17	Whose land is the land used for construction on?	Jhoni Mbulu Manggal
18	Distance from the ferrocement water tank to the nearest house (meters)	15
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	4 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 La Padang

Water Tank Names	Building Ferrocement Water Tank	Construction of rainwater harvesting and filter installation	Monitoring and Evaluation	TOTAL BUDGET
WAI LA PADANG	Chf. 1370	Chf. 538	Chf. 215	Chf. 2123

The Story of the Wai La Padang

The ferrocement water tank's construction began with the constraints of narrow road access and a hilly location. Materials couldn't be transported directly, so residents worked together to repair the road and manually transport cement, sand, and iron for approximately 100 meters.

To ensure smooth progress, this process was carried out concurrently with work at Wai Pa Luri Wangu. Once the materials were ready, construction continued with foundation work, iron framing, wall installation, plastering, and pipe installation. Thanks to the residents' solidarity, the work proceeded smoothly.

The final phase focused on constructing the formwork, iron frame, and casting the ferrocement water tank lid, as well as applying leak-proof paint to the exterior and interior. Good weather facilitated the work. This phase concluded with the construction of a fire pit for the work area, a pipe inspection, and initial testing of the ferrocement water tank's functionality.

