

REPORT HAMBARITA WATER CONNECTIONS - PHASE I

WAI PANDULANG



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 PANDULANG

BUILT BY HAND & TOGETHERNESS

The Wai Pandulang (Rescue Water) Ferrocement Tank, which was completed on July 16, 2025, is a water tank that was built manually by the hands of local residents together with the foundation.

Located in the **Kaita Lepir** family home, this house can accommodate ±15 people. It was built using cement, sand, wire, water, and most importantly, 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
+62 818 0220 0818

Wai Pandulang 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 PANDULANG 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	17
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	11
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	74WQ+H75 Pambotanjara, Kabupaten Sumba Timur, Nusa Tenggara Tim.
16	Name of Person in Charge of the Ferrocement Water Tank	Kaita Lepir
17	Whose land is the land used for construction on?	Kaita Lepir
18	Distance from the ferrocement water tank to the nearest house (meters)	17
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
21	House Size	7 meter X 7 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 Pandulang

Water Tank Names	Building Ferrocement Water Tank	Construction of rainwater harvesting and filter installation	Monitoring and Evaluation	TOTAL BUDGET
WAI PANDULANG	Chf. 1339	Chf. 520	Chf. 215	Chf. 2074

The Story of the Wai Pandulang

Construction of the ferrocement water tank in Wai Pandulang has reached approximately 90% completion, including material distribution, formwork installation, plastering, and piping installation. Technical constraints on the diameter of the ferrocement water tank were resolved by adjusting the formwork installation method to achieve a more precise shape.

The second week focused on completing the topside, including casting and installing the lid, vents, manholes, and final finishing. With the completion of this phase, the main structure of the ferrocement water tank was declared complete.

