

Project Details For Final Submission

Project Title:

Nong Monta Water Collector Tower

Student's Full Name:

Sirapatsorn Saetang

Course:

Sustainable Disaster Relief Building

Studio Brief Title:

Algae Powered Disaster Relief Container House

Short Project Description:

The Ring Water Collector – Nong Monta Village

The design project is located in the remote mountains of Mae Wang District, Chiang Mai is home to over 600 residents. The community faces critical water shortages and accessing clean water is a daily struggle. The **Ring Water Collector** is designed to become a sustainable, community-focused solution designed to harvest up to 104 liters of rainwater per day during the rainy season. Positioned throughout the village for easy access, each structure not only provides a reliable source of water but also serves as a gathering space—supporting cultural exchange, social interaction, and community resilience.

Full Project Narrative (300 Words max.)

Nong Monta Village, located in Moo 16 of Mae Win Subdistrict in Mae Wang District, Chiang Mai, Thailand, is situated on a high mountain over 40 kilometers from the nearest town. The village spans several remote areas, making access to essential resources a significant challenge for its residents.

Nong Monta Village, Moo 16, with 145 households and over 600 people, is severely affected by drought and water shortages. Villagers must walk 5 km to fetch water, which is then stored for sedimentation and boiling. Water for agriculture is insufficient, and residents can only shower every three days. With only two water trucks available for 19 villages.

The Ring Water Collector is an alternative solution designed to help villages collect rainwater during the rainy season. Each collector can capture up to 104 liters of water per day. The structure is strategically placed around the village, making it easily accessible to residents. In addition to serving as a reliable water source, the collectors also function as community centers, fostering cultural activities and bringing people together.