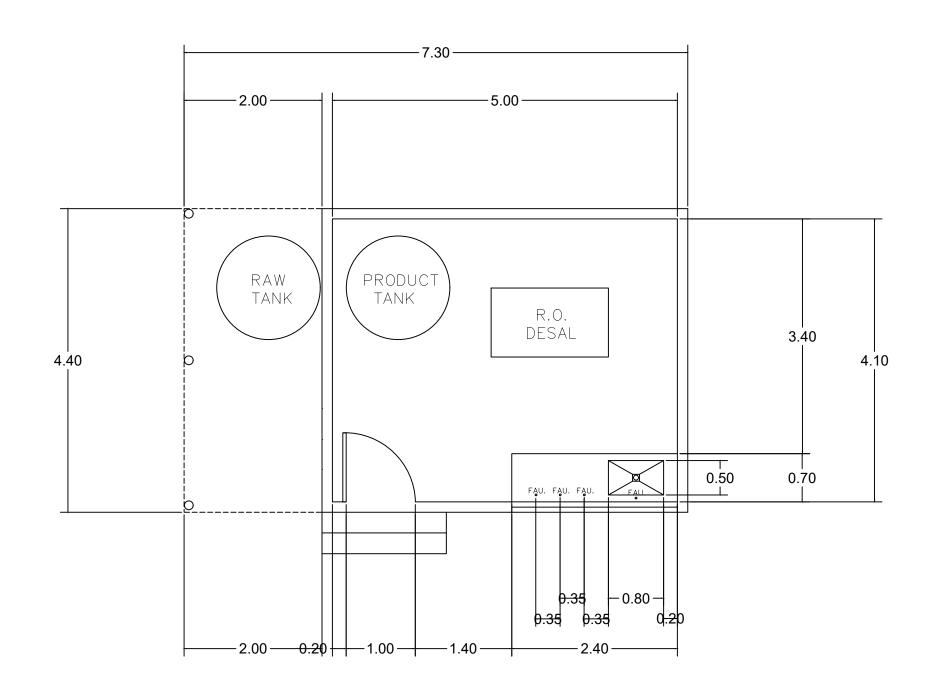


Proposed Water Desalination Production Area

13.527000889651479, 122.11859343115655







PROJECT TITLE:	DRAWN BY:	NOTED BY:	OWNER:	SHEET CONTENT:	APPROVED BY:	SHEET NO.:
DESALINATION	Ar. DANILO B. AMOR JR.					A
PROJECT LOCATION: MONGPONG ISLAND	ARCHITECT, UNIQUE CORP.	MICHAEL CHUA LIWANAG MANAGER,UNIQUE CORP.	DOST MINDORO	AS SHOWN		1



DOST Form 5 A – PROJECT WORKPLAN

(1) Program Title: GRANT-IN-AID

(2) Project Title: Improving Access to Safe Drinking Water through Water Desalination in Barangay Maniwaya, Sta. Marinduque (3) Project Duration (number of months): 12 months (4) Project Start Date: 2025 (5) Project End Date: 2026

	(6) OBJECTIVES	(7) TARGET ACTIVITIES	(8) TARGET ACCOMPLISHMENTS	Y1				Y2					Y3			
			(quantify, if possible)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
	Establish a water desalination facility in Barangay Maniwaya capable of producing 2 cubic meters of clean and potable water daily by 2025.	 Evaluate the current water supply situation and demand in Barangay Maniwaya. Assess potential sites for the facility based on accessibility, environmental impact, and proximity to water sources. 	Establish reliable production of potable water and provide enough water to meet the needs of at least 100–200 individuals daily, based on an average consumption of 10–20 liters per person.			X										
2	Provide affordable and safe drinking water to 100% of Barangay Maniwaya's population, reducing reliance on costly mainland-sourced water within the first year of operation.	Estimate the current water consumption patterns and identify the population's needs.	Improve access to safe drinking water for 100% of households in Barangay Maniwaya and reduction in time and effort required by residents to obtain potable water, particularly for vulnerable groups such as women and children.			X	X									
3	Generate two (2) employment opportunities for residents by hiring and training facility operators to ensure efficient and sustainable operations.	Create a comprehensive training program covering essential skills for operating and maintaining the desalination facility.	Create local employment and promote economic empowerment through the skill development of trained operators who will manage the full operation of the project.			x										
4.	Reduce the financial and logistical burden on residents by decreasing household water expenses by at least 50% within the project's first year.	Conduct a detailed analysis of existing household water expenses, including purchase of bottled or delivered water and costs of fetching	Achieve a 50% reduction in household water expenses within the first year of the project by implementing a sustainable water supply system, monitoring its operational efficiency, and ensuring accessibility for all target households.	X	x											

DOST Form 5 **B – EXPECTED OUTPUTS**

(1) Program Title: GRANT-IN-AID

(2) Project Title: Improving Access to Safe Drinking Water through Water Desalination in Barangay Maniwaya, Sta. Marinduque

(3) Project Duration (number of months): 12 months

(4) Project Start Date: 2025 (5) Project End Date: 2026

(9) EXPECTED OUTPUTS	Y1 Objectively Verifiable Indicators (OVIs)					Y2 Obje	Y3 Objectively Verifiable Indicators (OVIs)								
(6Ps)	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Publications				1	1										
Patents/IP					None										
Products				1	1										
People Services				1	1										
Places and Partnerships	1				1										
Policy				1	1										
(10) POTENTIAL IMPACTS (2Is)															
Social Impact	pro	oviding tr		nd involvir		oorne diseas managing the									
Economic Impact The project will create jobs for residents and boost the local economy by reducing the coexpenses for families, allowing them to save money for other needs. In the long run, the benefiting the community financially.						the cost or run, the d	of water fo lesalination	or househon facility o	olds. It will an becom	also lowe e self-sus	er water staining,				

DOST Form 5 C - RISK MANAGEMENT PLAN

(1) Program Title: GRANT-IN-AID

(2) Project Title: Improving Access to Safe Drinking Water through Water Desalination in Barangay Maniwaya, Sta. Marinduque

(3) Project Duration (number of months): 12 months (4) Project Start Date: 2025 (5) Project End Date: 2026

OBJECTIVES	(11) RISKS AND ASSUMPTIONS	(12) RISK MANAGEMENT PLAN (use separate sheet if necessary)
 Establish a water desalination facility in Barangay Maniwaya capable of producing 2 cubic meters of clean and potable water daily by 2025. 	 R- High initial cost of purchasing, installing, and commissioning the desalination facility may exceed budget projections. A- Secured adequate funding to cover capital and operational expenses. 	Provide flexibility in the budget to manage unexpected expenses without compromising the project's scope.
2. Provide affordable and safe drinking water to 100% of Barangay Maniwaya's population, reducing reliance on costly mainland-sourced water within the first year of operation.	 R - maintaining consistent and safe water quality, especially during peak demand. A- desalination technology will be reliable, producing consistent, high-quality potable water without significant issues. 	Ensure the desalination system is protected from poor water quality, especially during environmental changes
 Generate two employment opportunities for residents by hiring and training facility operators to ensure efficient and sustainable operations. 	 R- lack of local residents with the required skills or willingness to work as facility operators. A- sufficient number of qualified or trainable local residents interested in the facility operator roles. 	Attract skilled workers and retain them by offering more than just base pay, including benefits like job security, growth opportunities, and job satisfaction.
4. Reduce the financial and logistical burden on residents by decreasing household water expenses by at least 50% within the project's first year.		Implement regular maintenance, establish backup water sources, and allocate emergency funds to ensure uninterrupted system operation and achieve the 50% cost reduction goal.