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# Solution

### **Hard Approach**

1 Solar Motor



The motor will utilize solar energy to pump water from the lake to the water tank resulting in savings on the electricity bill. 2 Water Tank



The water tank serves as a storage medium for water from the source before transferring it to the water purification system. UF Water
Purification System



This purification process involves several stages, including the carbon filter, UV treatment, RO membrane, PP Spun filter, and others, ensuring the production of clean drinking water.

# Solution

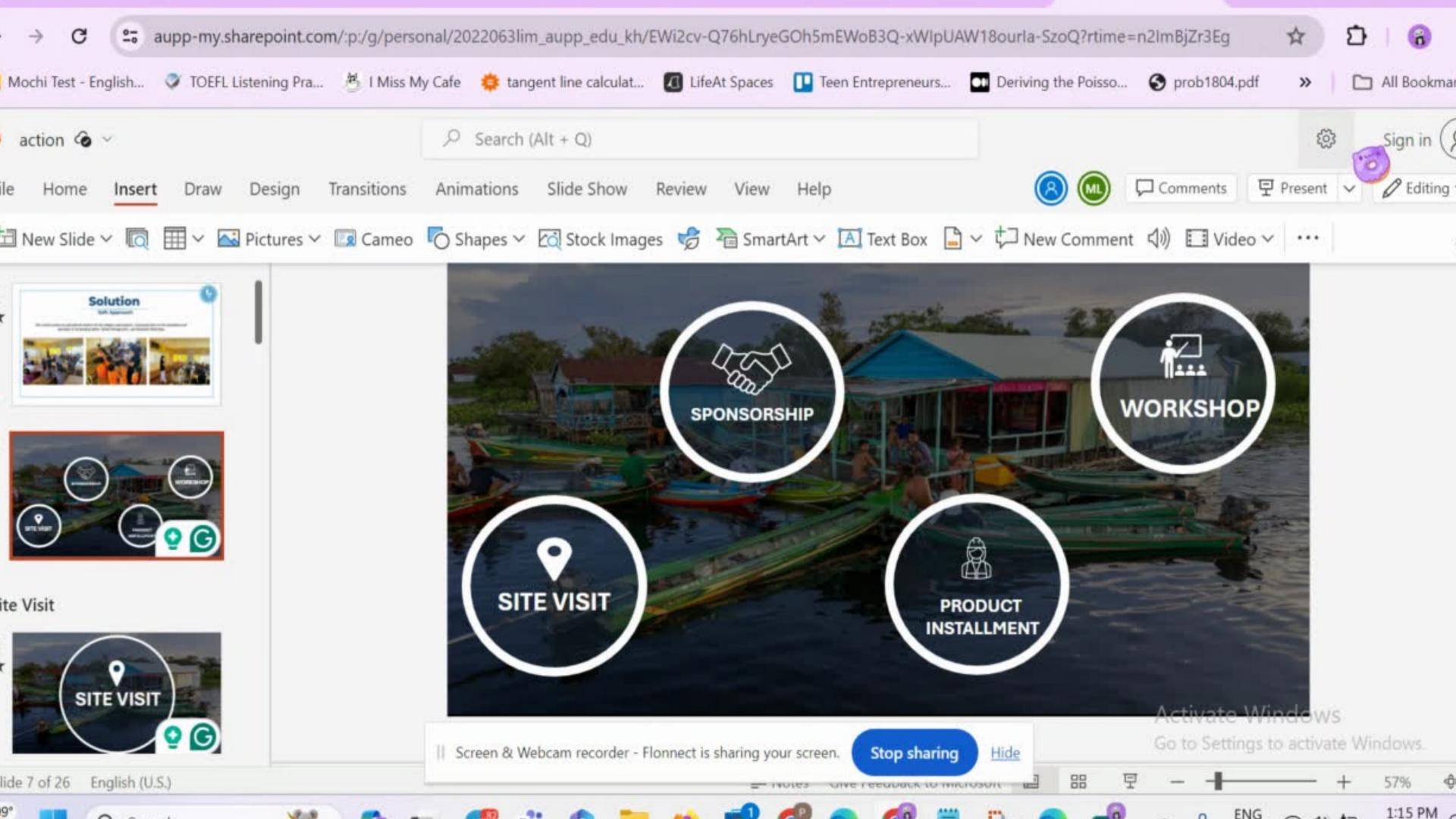
### **Soft Approach**

We conduct hands-on educational sessions for the villagers and students, instructing them on the installation and operation of composting toilets, Water Management, and Sanitation Workshop.









# Effectiveness of the Water Purification System

### Before



Collect water from the river



**Boil the water** 



Consume the water with brown color

### After



Go to the kitchen



Collect water from the river



# Water Quality Comparison

**Before Purification** 



After AquaCleanse Purification System



**Color: Slight Blue Tin** 

### Result

from

Water

Testing



ACCREDITED Testing Laboratory

N. 14A, St. 185, Sangkat Tumnubtoek, Khan Boeng Keng Kang, Phnom Penh,

Cambodia. Tel.: 012 531000

Ref.: AI2024-0223

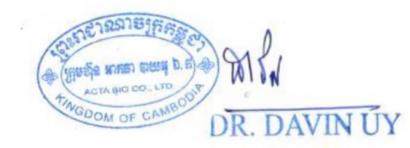
#### RESULT OF ANALYSIS

Organization / company	Heng Pich Solida Tel.: 087 212188	
Address	Cambodia	
Type of sample	River Water	
Sample submitted date	24 April, 2024	
Date of testing performance	24 April, 2024	-

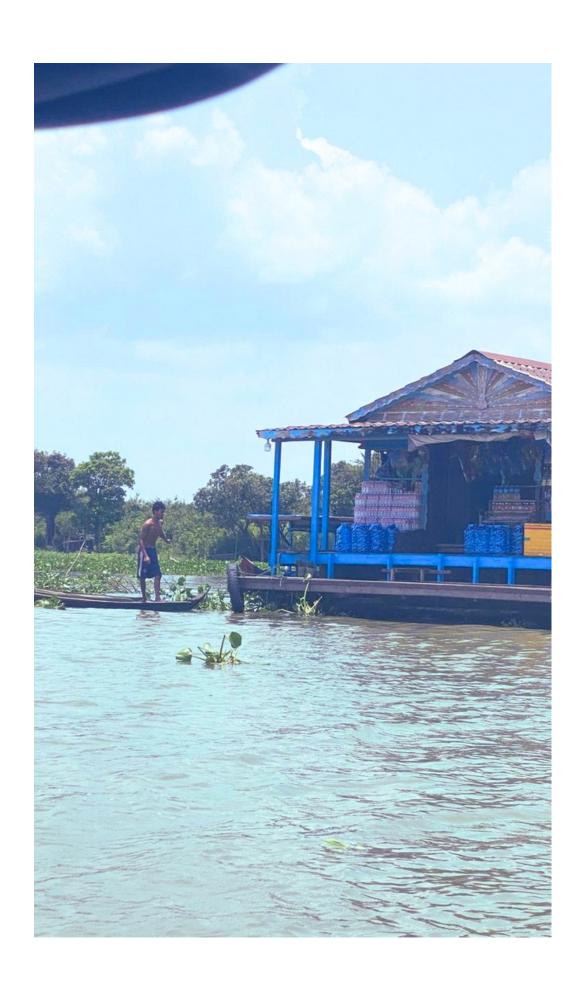
N	Parameter	Standard of drinking water	Unit	<b>Testing Result</b>	Testing Method
1	Arsenic (As)*	< 50	μg/L	0	ISO 17378
2	Chloride (Cl <sup>-</sup> )	< 250	mg/L	86.6	ISO 9297
3	Total dissolved solid (TDS)*	< 800	mg/L	349	AOAC 973.40
4	Iron (Fe)*	< 0.3	mg/L	0.02	ISO 6332
5.	pH	6.50 - 8.50	-	7.08	AOAC 973.41
6	Turbidity*	< 5	NTU	4.00	ISO 7027
7	Total Plate Count	< 100	cfu/1 mL	$7.0 \times 10^{1}$	ISO 6222
8	Coliform bacteria	0	MPN/100 mL	None found	ISO 9308-2
9	Presumptive E. coli	0	MPN/100 mL	None found	ISO 9308-2

<sup>\*</sup> are not covered by the scope of the accreditation.

Phnom Penh, 27 April, 2024 Director







### THE PROJECT IMPACT



#### **Economic Impact**

Annually it save the community **10**, **950**, **000** Riel from buying clean water

#### **Awareness impact**

Through community and student workshops, we raise awareness about clean water and waste management.

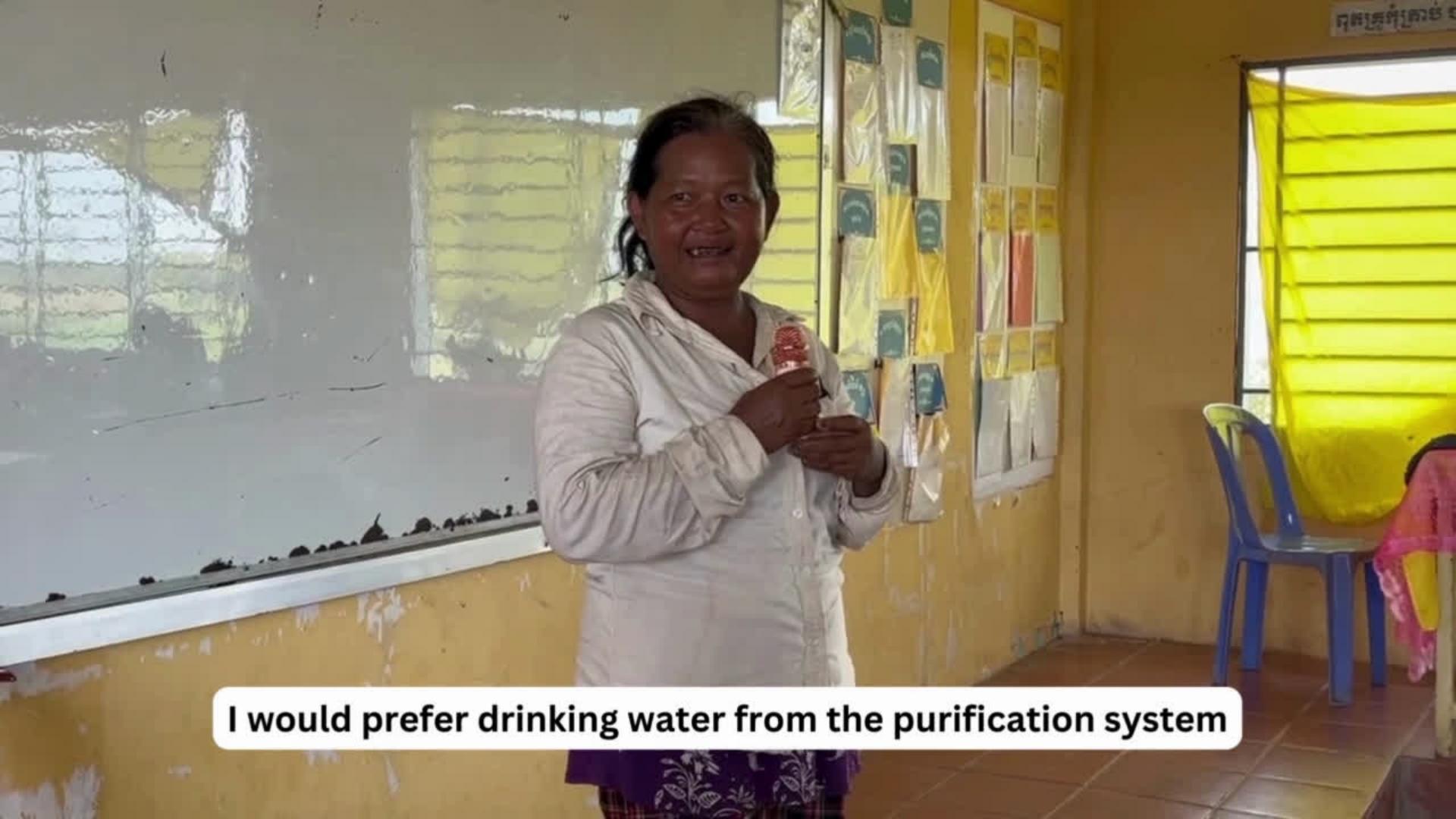


#### **Health and Wealth being**

Villager can access clean water for both usage and drinking water

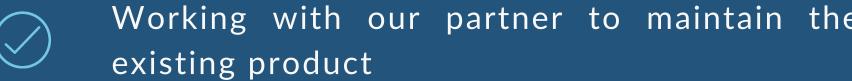
#### **Environmental impact**

Imagine reducing 20 plastic bottles per day; over 365 days, this would result in saving 7,200 bottles.









- Create a new business model with the partner to create a port where villagers can access clean water at a lower price
- Utilizing our existing connections with past sponsors to form collaborative partnerships expand our outreach to potential sponsors and the local government
- Community enagement with clean water and waste management workshop

### **DIGITAL AWARENESS**



We have achieved 106 followers in 6 weeks.

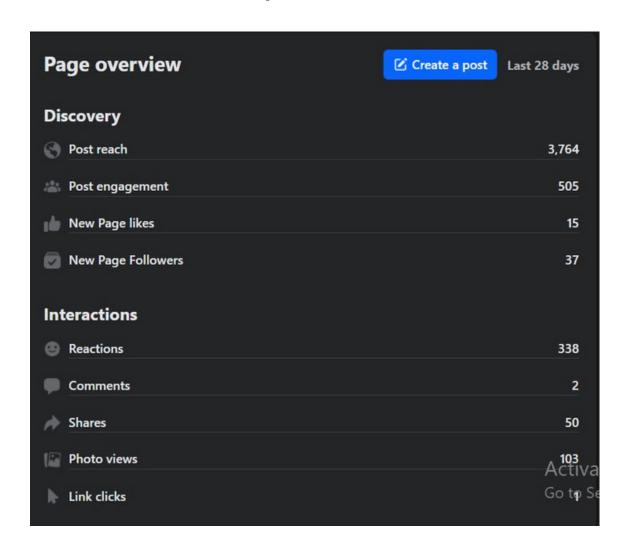






### **DIGITAL AWARENESS**

- Post Reach = 3,764
- Post Engagement = 505
- Engage 5 public participants to join our workshop







### Water

The source of life, should not be a luxury or a danger.



"ទឹកស្អាតដើម្បីសហគមន៍ - Clean Water For Our Community"





**Phal Panhanyta** 

Marketing, Media & Communication



**Lim Meyching** 

People Experience & Logistic



**Heng Pich Solida** 

Operation, Finance & Sponsorship

**Project of:** 



Program of:



**Our Partner:** 



Main Sponsors:



**In-Kind Sponsors:** 













# Appendix

### **Total Expenses**

No.	Desciption	Quantity	Unit	Price	Amount
ı	Site Visit 1				\$ 188.40
1	Breakfast				24.5
2	Lunch				24.5
3	Dinner				30.4
4	Other Expense				109
II	Site Visit 2				\$ 179.60
1	breakfast				15.35
2	Lunch				20
3	Car				90
4	Material				13
5	dinner				11.25
6	boat				30
Ш	Materials				\$ 326.25
1	Water Purification				\$155.00
2	Tank				\$52.00
3	Water Testing				\$ 50.00
4	Sticker				\$ 10.00
5	Water bottle				\$22.50
6	Plaster + Balm				\$20.00
7	Book + Pen				\$16.75
IV	Site Visit 3				\$917.50
1	Hotel				\$150.00
2	Car				\$360.00
3	Boat				\$103.00
4	Food				\$248.00
5	Pink House				\$14.00
6	water				\$12.00
7	IBC				\$4.50
8	Other Expense				\$26.00
	<b>TOTAL Expense</b>				\$1,611.75

### **Total Budget**

No.	Desciption	Quantity	Unit	Price	Amount
1	Workshop Participant	5	person	\$80.00	\$450.00
2	Tumblr Sponsor	25	bottle	\$2.00	\$50.00
3	Water Agency				\$1,112.00
	Total Budget				\$1,612.00

### Leftover Budget

Leftover Budget	Total Budget - Total Expense		
	1612 - 1611.75	0.25	

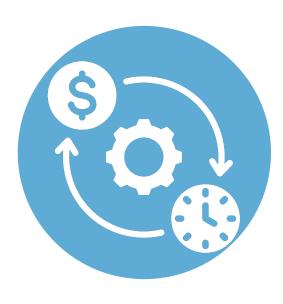




# What makes our project stand out?



Easily accessible for consumers

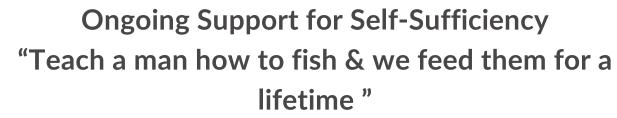


**Eco-friendly and Cost- Efficiency** 



Water







Community health guarantee

# Problem Statement

Access to clean water is crucial for meeting our daily needs, but individuals residing in the floating village of Prek Toal in Battambang Province face

challenges:



Inadequate access to clean drinking water

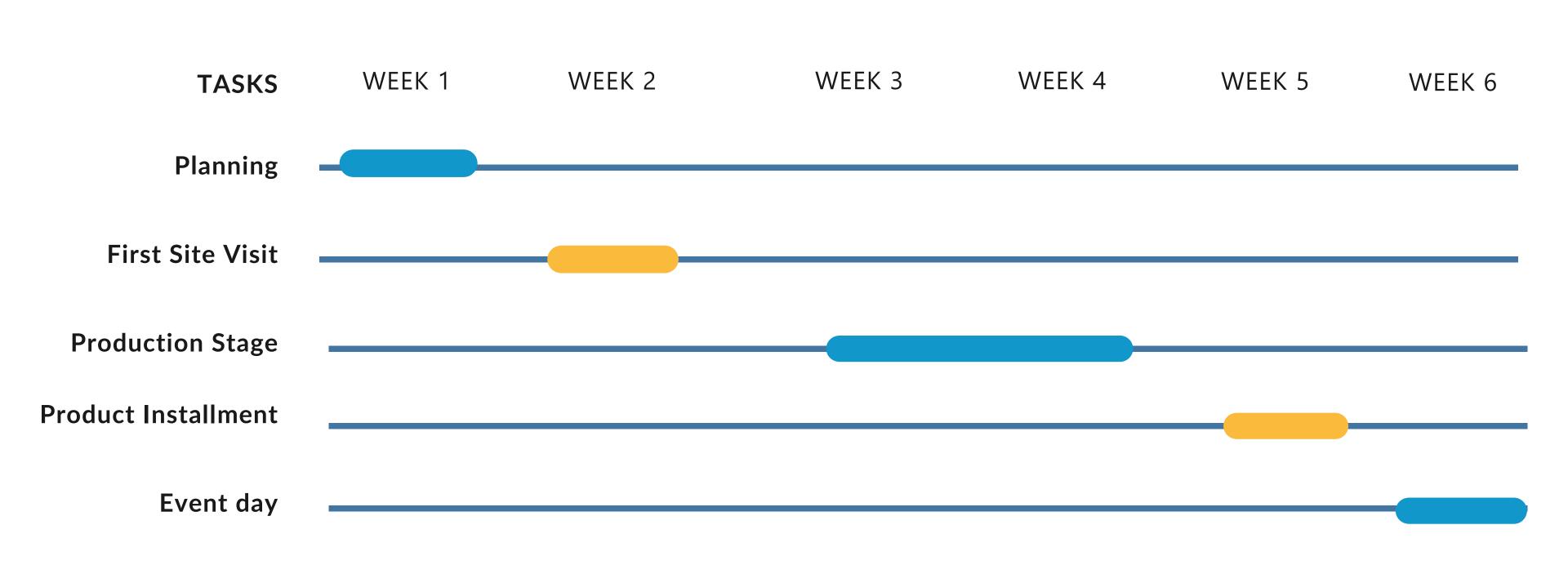


Poor sanitation and wastewater management



Environmental degradation due to unsuitable waste disposal practices

# Pilot Project Timeline



### **Site Visit Activity**













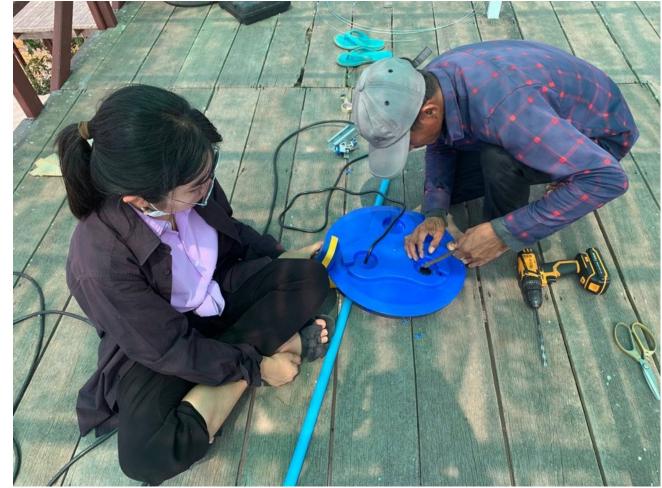
### **Meeting Sponsor**



#### **Product Installment**







### Workshop day







# Long term goal

## MINISTRY AND GOVERNMENT







#### NGOS





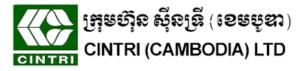


## POTENTIAL COMPANY WITH CSR





### WASTE COLLECTION COMPANY







# MONTHLY EDUCATIONAL WORKSHOP



Sustain clean water



Maintenances



Digital AwarenessCampaign

### Timeline

2025(Q1)

### Establish Foundation & Conduct R&D

Hire technical experts and business developers for ongoing operations. Conduct deep research. Prototype and test the product and design.

Seeking for potential suppliers.

2025(Q2)

#### **Marketing & Collaborations**

Develop strong brand identity through media channels. Forge partnership and collaborations. (Start from Q2 and ongoing) 2025(Q3)

#### **Educational Workshops**

Conduct workshops and develop educational materials. Conduct survey participants feedback for improvement. (Start from Q3 and ongoing) 2025(Q4)

#### **Monitoring & Evaluations**

Collect data on water quality improvements and health outcomes.

Conduct surveys and interviews with users to assess impact.

2026 (Q4)

#### **Innovate New Product**

Conduct deep research. Prototype and test new product and design.

2026(Q3)

#### **Conduct Market Research**

Conduct market research for Problem Identification and Problem Solving.

2026(Q2)

#### **Innovate and Improve**

Based on feedback and performance evaluation, innovate and improve current product.

2026(Q1)

#### **Marketing & Sales**

Scale up the workshops to reach a larger number of participants. Provide incentives for referral programs.