



Republic of the Philippines  
Department of Environment and Natural Resources  
Visayas Avenue, Diliman, Quezon City 1116  
Tel Nos. 9296626 to 29 ; 9296633 to 35  
Website <http://www.denr.gov.ph/> Emailweb@denrgov.ph

**MEMORANDUM**

**TO :** THE REGIONAL EXECUTIVE DIRECTORS  
Regions 1-8, NCR and CAR

**FROM :** THE UNDERSECRETARY  
Field Operations Luzon, Visayas and Environment

**SUBJECT :** PORTABLE WATER FILTRATION/ TREATMENT SYSTEM

**DATE :** OCT 24 2022

This pertains to the Memorandum dated 20 October 2022 from DENR Undersecretary and Chief of Staff Marilou G. Erni for your information and appropriate action is the attached letter from Mr. John Michael B. Hiceta, Business Development Partner of Pro water Filtration System that can provide potable water even in remote areas in the country.

For compliance.

  
ATTY. JUAN MIGUEL T. CUNA, *CESO I*

c.c

Office of the Secretary

Mr. John Michael B. Hiceta  
Business Development Partner  
Pro water Filtration System  
0915112613

MEMO NO. 2022 - 745



Republic of the Philippines  
Department of Environment and Natural Resources  
Visayas Avenue, Diliman, Quezon City  
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**MEMORANDUM**

FOR : **The Undersecretary**  
Field Operations – Luzon, Visayas, and Environment

FROM : **The Undersecretary and Chief of Staff**

SUBJECT : **PORTABLE WATER FILTRATION/TREATMENT SYSTEM**

DATE : **OCT 20 2022**

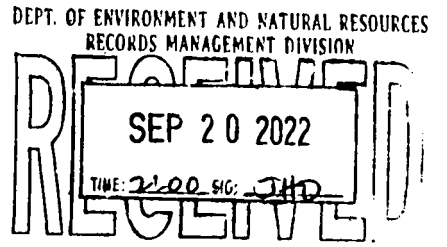
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Respectfully referred, for information and appropriate action, is the attached letter from Mr. John Michael B. Hiceta, Business Development Partner of Prowater Technologies, Inc. introducing their Portable Water Filtration System that can provide potable water even in the remotest area of the country.

Please inform Mr. Hiceta and the undersigned of any action taken on the subject matter.

  
**MARILOU G. ERNI**

cc: MR. JOHN MICHAEL B. HICETA  
Business Development Partner  
Prowater Technologies, Inc.  
584 Sierra Madre St., Malamig  
Mandaluyong City



Attention : **MARIA ANTONIA YULO-LOYZAGA**  
**Secretary**  
**Department of Environment and Natural Resources**

Project : **Potable Water Treatment System**

Dear Secretary Yulo-Loyzaga,

For the past nine (9) years, **PRO WATER TECHNOLOGIES, INC.** have been solving water & wastewater related problems for various industry type. Our passion is not only to sell our technology but more so, we endeavor to help our Government promote environmental consciousness and safety by providing practical and efficient solutions to increasing water and wastewater concerns affecting our ecological balance and the health of our generation.

**PRO WATER TECHNOLOGIES, INC.** launches PATaK, short for "Pambansang Alay Tubig at Kalusugan" which aims to address the lack of or shortage of clean water even in the remotest area in our country. We aim to provide *Potable Water Supply* in rural, peri-urban & urban areas, during or after a natural or manmade disaster such as floods, earthquake, typhoon, and unrest/conflict zones where thousands of people are displaced.

**PRO WATER TECHNOLOGIES, INC.** is in partnership with world experts in the field of water treatment and serves as technology based, service and distribution center in the Philippines.

We trust you to find our proposal to your satisfaction and look forward in serving your office soon.

Very truly yours,

John Michael B. Hiceta  
Business Development Partner  
0915112613



PROJECT PATAK

# Pambansang Alay Tubig at Kalusugan

The perfect safe water solution for communities, calamities & disasters  
Independent from any external energy source



Disaster-relief in Nepal





Disaster-relief in Nepal

## The perfect safe water solution for rural communities, and during calamities & disaster

- Fully mechanical and hand-powered
- Achieves WHO standard water quality
- Removes suspended solids and contaminants like viruses, bacteria, protozoa, and cysts while allowing good minerals to pass through
  - ✓ Result to a **SAFE, HEALTHY, ALKALINIC WATER** with minerals
- **FOR IMMEDIATE DISASTER-RELIEF A UNIT CAN BE OPERATIONAL WITHIN 30 MINUTES AFTER ARRIVAL ON LOCATION**
- 500 liters of pure, clean drinking water per hour
- Serves 1,500 up to 2,500 pax per 10-hour operation
- Suitable in areas where fresh water is available including lakes, rivers, falls, ponds, streams, wells, basins, storage tanks (e.g. rainwater harvesting) and even flood water

 **STANDARD WATER QUALITY**  
WHO FOR REMOVAL OF BACTERIA & VIRUSES

- Compact and easy to deploy
  - ✓ can be loaded in a boat, trike or makeshift cart
  - ✓ weighs just about an average man at 67 kgs
- Easy to maintain and user-friendly
- NO use of chemical
- Self-cleaning with automatic backwash system
- Made to last; built without any vulnerable electronics and theft-prone components



Community in Indonesia



Community in Mali

Villagepump is successfully installed and operational in more than 20 countries including Malaysia, Zambia, Mali, Suriname, Kenya, Ghana, Mozambique, Indonesia, Bangladesh, India and Nepal. Since after the installation, health condition of the people in those countries improved with the decline in the statistics of waterborne-diseases.

 **Villagepump**  
Safe Water Solutions

Philippine Exclusive Distributor:

 **PROWATER**  
TECHNOLOGIES INC

**PROWATER TECHNOLOGIES, INC.**

584 Sierra Madre St.Brgy. Malamig,  
Mandaluyong City 1550

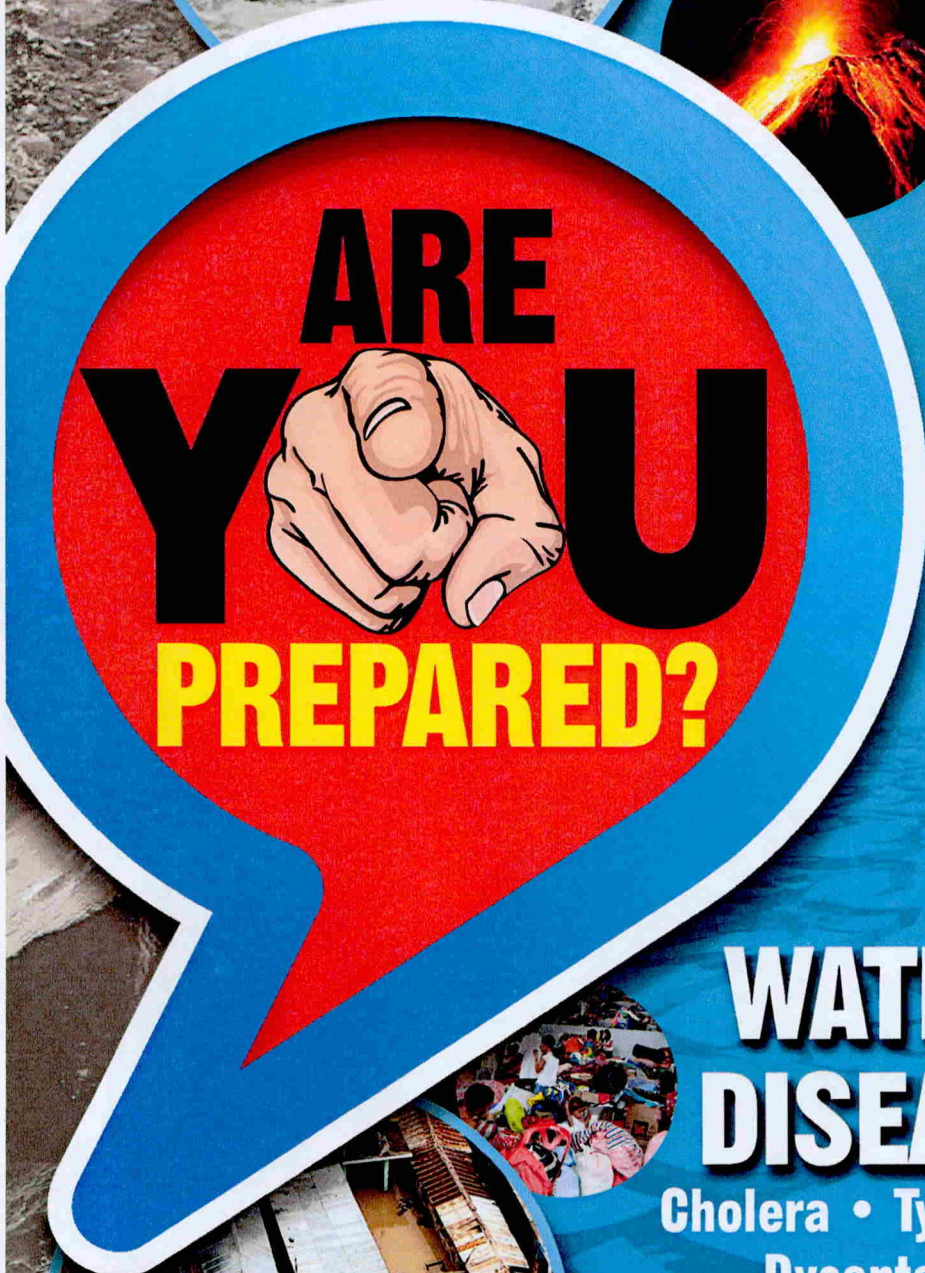
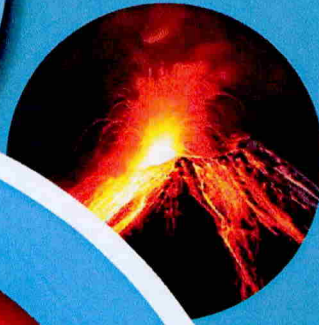
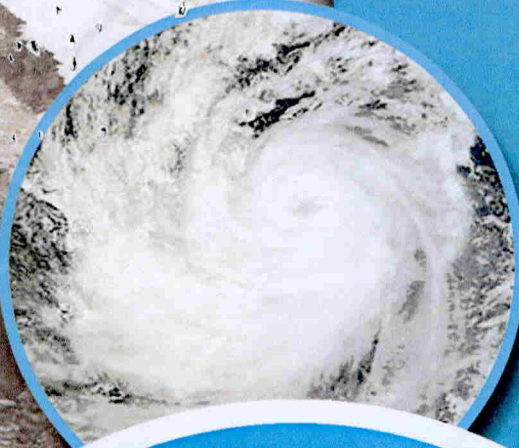
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[www.prowatertech.com](http://www.prowatertech.com)

# CALAMITY

Yolanda • Undoy • Mt. Pinatubo  
and Mt. Mayon Eruption



# EARTHQUAKE

The BIG ONE is coming!

# WATER BORNE DISEASE OUTBREAK

Cholera • Typhoid fever • Hepatitis A •  
Dysentery • Salmonella • E. Coli



# FIRE DISASTER

Homeless Victims • Evacuation Areas



# Pambansang Alay Tubig at Kalusuga

Portable Water Filtration System for Disaster & Calamity Emergency Response



## Easy to DEPLOY

Can be loaded in a boat, trike, makeshift cart or firetruck.

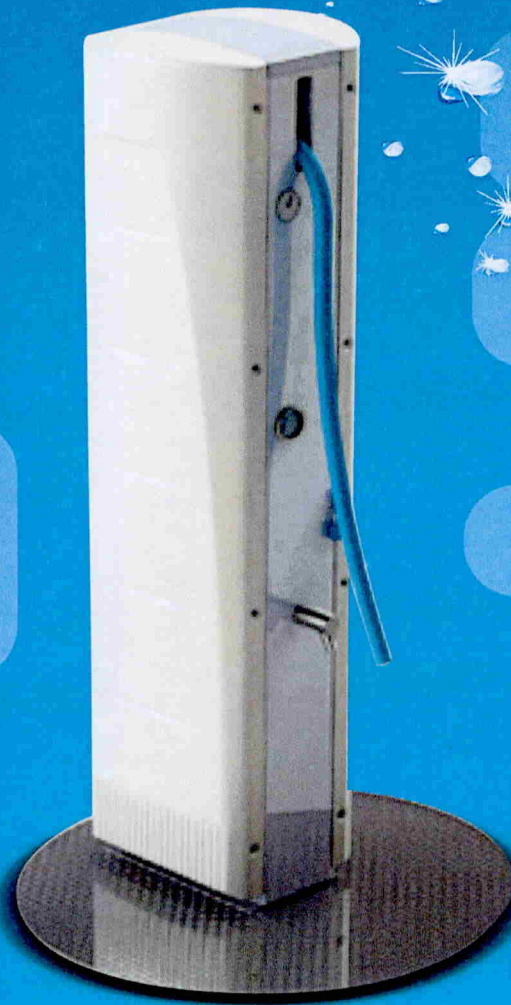


Mobile & compact and very easy to install.

Expels pathogens viruses, bacteria, protozoa and cyst that can cause diarrhea, dysentery, cholera and hepatitis.

Can operate in areas where there is fresh water supply including lakes, rivers, falls, ponds, streams, wells, basins, storage tanks (e.g. rainwater harvesting) and even flood water.

Completely mechanical and hand power.  
**NO EXTERNAL POWER** needed



Purifies 500 liters of water per hour that meets WHO standard for drinking water.

Self-cleaning (auto backwashing system).

LOW maintenance.

Covers daily portable drinking water for 4000 people

Does not remove healthy minerals needed by the body.

No chemical needed to treat water.

**OR IMMEDIATE DISASTER-RELIEF A UNIT CAN BE OPERATIONAL WITHIN 30 MINUTES AFTER ARRIVAL ON LOCATION**



factured by:



Safe Water Solutions  
Villagepump BV

Lisdoddelaan 80 1087 KA Amsterdam The Netherlands

Philippine Exclusive Distributor:



584 Sierra Madre St., Malamig, Mandaluyong City, Philippines,  
Tel. No.: 63 2 9422615, 63 2 9785551, 63 2 2164462  
[www.prowatertech.com](http://www.prowatertech.com)

## TERMS OF REFERENCE

### Proposal for Acquisition of Project Patak (Villagepump500) – Portable Water Filtration System for Calamity Victim and Rural Areas

#### 1.0 Project Background

What is Project Patak?

P – ambansang

A – lay

T – ubig

A – t

K – alusugan

It is a proposed movement aimed towards providing more Filipinos in rural areas with easy access to safe and potable drinking water. It can also be used as a portable water filtration system for calamity victims such as Yolanda.

#### 2.0 Objective

To be able to help our constituent who do not have access to clean & safe water source to have a decent supply of drinking water.

To be prepared on water shortage issues since we are a disaster prone calamity. An average of about 20 typhoons hit the Philippines annually; 5 of which cause great damage

Location within the "Pacific Ring of Fire" makes it susceptible to recurrent earthquakes and volcanic eruptions

Increasingly frequent occurrence of natural disasters due to climate change

#### 3.0 Product Description

The Villagepump 500 yields at least 500 liters of fully purified, cool drinking water an hour or over 4 m<sup>3</sup> per day, all of the qualities that meets WHO standards.

Each Villagepump 500 employs multi-stage filtering that reduce diseases by removing waterborne pathogens that can cause diarrhea, dysentery, cholera and hepatitis.

The units can operate from all forms of surface water, including ponds, lakes and streams.

The Villagepump 500 is ideal as a compact water treatment system wherever fresh surface water is available or with water storage systems (e.g. rainwater harvesting).

Pure water can be directly dispensed to any intermediate storage facility.

The pump is fully mechanical and hand-powered, constructed on the basis of proven technology, without using any vulnerable electronics. The use of robust materials gives an expected life span of at least 5 years with normal use.

As the mechanical components are assembled in a modular manner, the Villagepump 500 is very easy to maintain and exceptionally user-friendly.



#### **4.0 Technical Specification**

##### ***Truly innovative***

500 liters of pure, clean and cool drinking water per hour

WHO standard water quality achieved

No external power source

Ideal for small communities of up to 500 people where fresh surface water is available

Completely mechanical, self-cleaning (automatic backwash) and mobile

Modular design with minimal maintenance needs or costs

##### ***Smart filtering***

Filtering is performed in three stages:

A self-flushing suction filter automatically removes particles > 50 microns, such as grit.

Ultra filtering: this technology is based on membrane techniques removing bacteria, viruses, protozoa and cysts, while still allowing vital minerals to pass through.

An built-in long-life activated carbon filter will additionally remove color, odor, taste or mild contamination by chemicals originating from the source water.

**The membrane filter employs self-cleansing 'smart valves' for backwashing (Patented).**

##### ***Impressive performance***

Virus, bacteria and cyst removal

Active carbon filter restores odor and taste (Optional)

One VILLAGEPUMP 500 has capacity of at least 500 l/hour or approximately 4 m3 per day

Long service life thanks to automatic backwash and built-in chlorine dispenser

Regular service required only once every year

##### ***Features***

The elimination of external fossil fuel and or electrical power source

The elimination of vulnerable and theft-prone (electronic) components

The elimination of weather dependent components (ie. solar panels)

Once operational, the unit needs to be protected against freezing

Ambient temperature: min. +1° C, max. 60° C

Feed water temperature: +1° C, max. 50° C

Height: 1730 mm

Width: 500 mm

Depth: 590 mm

Weight: approx. 67 kg

#### **5.0 Delivery**

One (1) Month

**End**