



ECOCONCERN'S APPROACH TO SAFE WATER

Introducing Arsenic test kit and ECC vial



Eco Concern Pvt. Ltd.

Nepal

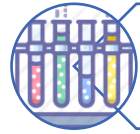
Eco Concern Pvt. Ltd.

An Overview

- **EcoConcern** A social enterprise working to achieve environmental sustainability by providing a complete solution through quality via **Laboratory services, Consulting services, Production And Promotion of WASH Products and Technology Transfers.**
- EcoConcern is ISO 9001:2015 certified company
- We are also a strategic partner of **Environment and Public Health Organization (ENPHO)**, a reputed NGO promoting Safe Water And Environment in Nepal for last 30 years.



EcoConcern services



Laboratory Services



Product Development and Distribution



Environmental Product Trading



Faecal Sludge Management



Healthcare Waste Management



Waste Water Treatment

EcoConcern's Mission

“To Collaboratively Promote The Delivery of Safe Water, Sustainable Sanitation And Alternative Energy That Produces High Quality And Lasting Benefits To Consumers and Communities.”

Drinking water Issues in Nepal

- 47% of Nepal's population in Terai region and among that population -90% consuming arsenic contaminated water (NASC, 2000)
- Another issue : Fecal matter increasing in water supply and is the root cause of pathogens in drinking water
- Lack of a simple, cheap, and easy to use test kit to ensure water is safe to drink.



Introducing Water test kits



Arsenic Test Kit



Ecoli and coliform (ECC) Vial

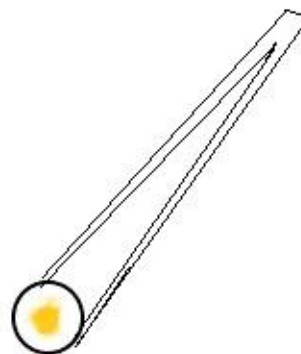
FEATURES OF ARSENIC TEST KIT (ATK)?



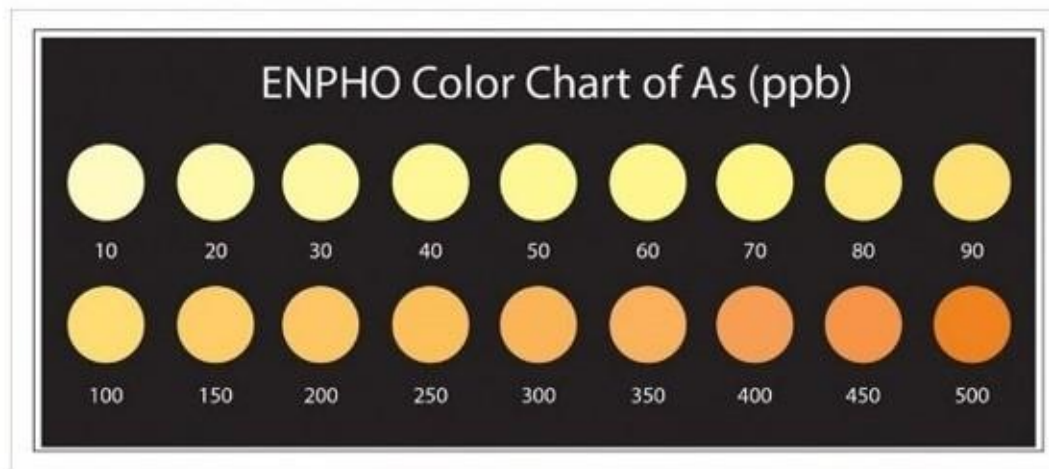
- A semi-quantitative method of Arsenic analysis.
- Easy arsenic detection on fields and remote areas
- Only Arsenic kit in Nepalese market.

COLOR COMPARISON METHOD

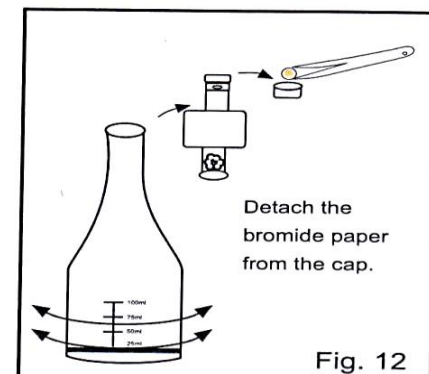
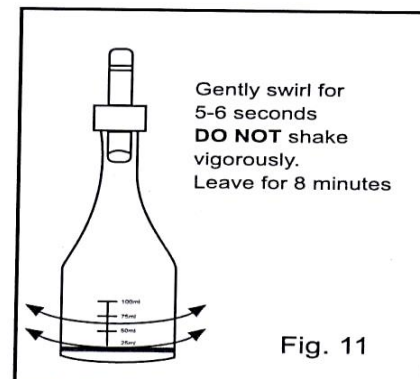
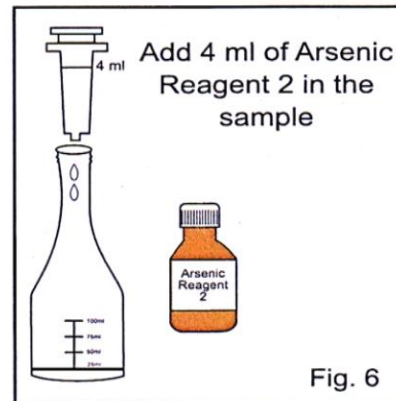
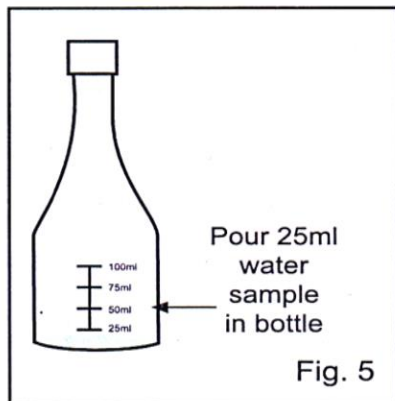
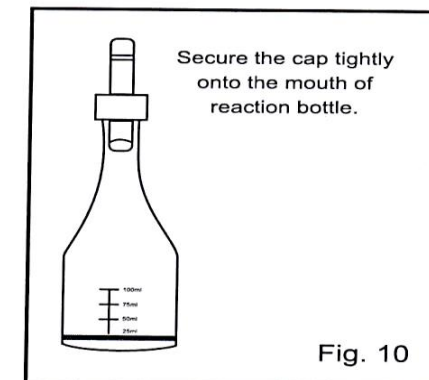
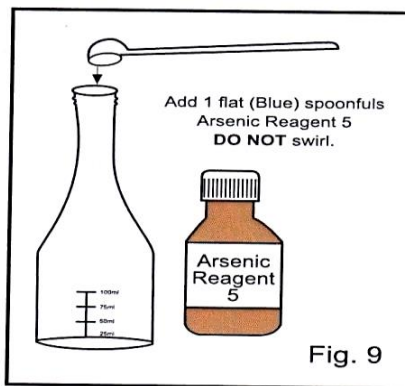
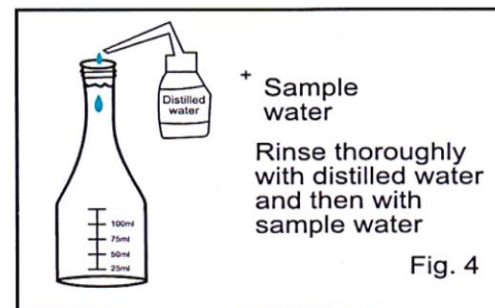
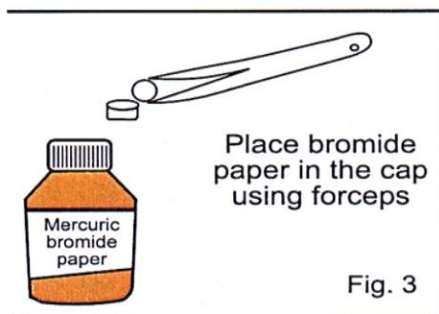
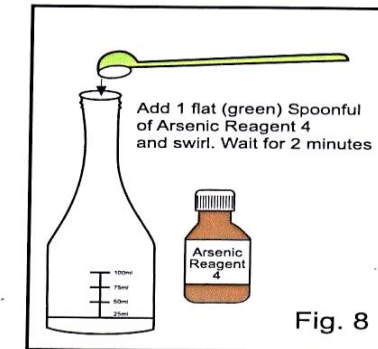
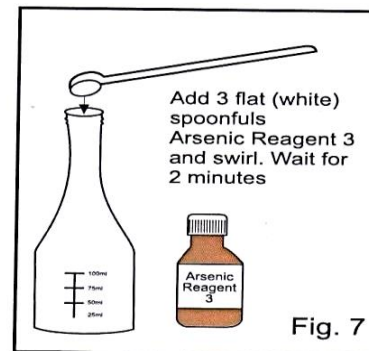
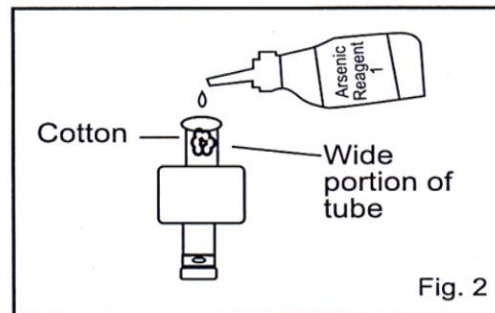
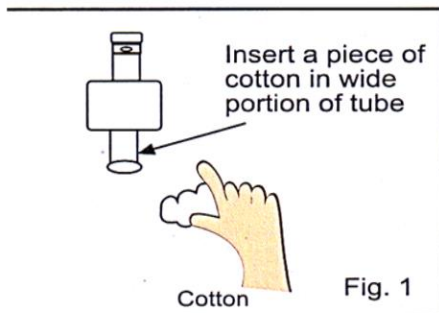
Concentration of Arsenic determined by color comparison with standard color chart.



Color comparison of bromide paper with standard color chart



HOW TO USE KIT ATK?



Features of ECC VIAL

ECC Vial can detect *E. coli* and coliform simultaneously by indicating through color change in water sample. It requires incubator for the result.



Result Interpretation: Four possible outcomes



1

E.coli and Coliform Negative

No change in color or turbidity:
indicates that the water sample is free of any bacteria and is safe for drinking.



2

E.coli Positive

Blue color
indicates that there is presence of *E. coli* in the water sample and the water is unsafe to drink.



3

Coliform Positive

Pink/Red color
indicates that there is presence of other coliform bacteria in the water sample and the water is unsafe to drink.



4

E.coli and Coliform Positive

Blue and Pink/Red
Indicates presence of both *E. coli* and other coliform bacteria and indicates that the water is unsafe to drink.

Thank you



Contact Us :

Eco Concern Pvt. Ltd.

Email: info@ecoconcern.com.np

Website: ecoconcern.com.np

Isha Manandhar

PMC Officer

Email: isha.manandhar@ecoconcern.com.np