



ECOCONCERN'S APPROACH TO SAFE WATER

Introducing Arsenic test kit and ECC vial



Eco Concern Pvt. Ltd.

Nepal

Drinking Water Issues in Nepal

- 47% of Nepal's population in Terai region and among that population 90% consume 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



E. coli and coliform (ECC) Vial

ARSENIC TEST KIT

Arsenic Test kit is a semi-quantitative method to analyze inorganic Arsenic present in water samples on-field. It is based on color comparison method with standard Arsenic color chart.



- Detection limit: 10 ppb-500 ppb
- Test type: Colorimetric detection
- Testing time: within 15 minutes
- Accuracy: up to 80%
- Lightweight and Portable

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



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