

Clean Water

Cluix- Strip based water quality testing device

APPLICATION

This new portable water quality testing device is used to test a variety of parameters related to drinking water and can determine whether water from a given source is suitable for consumption or not. It can test various parameters such as pH, turbidity, color, total hardness, free residual chlorine, TDS, lead, chromium, and copper.

COMPANY NAME

Cluix LLP

TECHNOLOGY READINESS LEVEL (TRL)

TRL: 8 (Early Revenue Generation Phase)

INTELLECTUAL PROPERTY

Filing in progress

FOUNDERS' NAME

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PROBLEM ADDRESSED

Due to the limited drinking water resources, intensive money requirements, growing population, urban change in rural areas, and the excessive use of sea resources for salt extraction has significantly worsened the water quality available to people. The high use of chemicals in manufacturing, construction and other industries, fertilizers in farms and also directly leaving the polluted water from industries into nearby water bodies have made a huge contribution to the global water quality reduction, which has become an important problem. Even due to contamination water various water born are increasing day by day, due to which many human beings are losing their lives.

ABOUT THE TECHNOLOGY

This innovative technology entails the reader circuit can measure the change in conductivity and excess charge caused when a drop of sample and an oxidase are mixed on the strip. The reaction on the strip is recorded and shown on the screen by a reader similar to a glucose meter. The meter also indicates if the test sample is permitted or not. They evaluated the known levels of lead by mixing *Dimethyl Sulphoxide* water with the test sample, and the oxidation reaction was recorded by the reader, which precisely displayed the quantities.

FUNDS RAISED/ACHIEVEMENTS

- INR 24.45 lakhs grant-in-aid from National Jal Jeevan Mission challenge.
- INR 35 lakhs under SISFS Scheme
- INR 60 lakh under NIDHI SSS

PRODUCT IMAGE



USP

- Multiple parameter testing with no reagent which makes it more user friendly.
- Easy to use device with one step method.
- AI Analysis of result with permissible levels.
- Portable hand held device- Can be carried across the field.
- IoT based data storage transfer.
- Low cost device for mass adoption of technology.

END USERS/CUSTOMERS

- Domestic Household customers
- Government agencies to monitor water quality
- Industrial bodies