

Water & Sanitation

Jal Prayogshala

APPLICATION

This new portable water quality testing device may be 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 Color, Turbidity, Ph, Chlorine, hardness, TDS, Fluoride, Iron, Nitrate, Nitrite, Ammonia, Phosphate, Copper, Manganese, Potassium, Sulphate, Boron, Zinc, Alkalinity, Chloride.

| COMPANY NAME | TECHNOLOGY READINESS LEVEL (TRL) | INTELLECTUAL PROPERTY |
|--|---|---------------------------------|
| Plasti surge industries Pvt Ltd | TRL: 5 (Currently laboratory testing of integrated system is going on) | Patent filing is under progress |
| FOUNDER'S NAME | | |
| Kamalesh Daga | | |

PROBLEM ADDRESSED

Access to safe drinking water is a fundamental human right. More than 80% of India's surface water is filthy, according to a research by WaterAid, an international organization that works to improve water sanitation and hygiene. Also Agricultural run-off including pesticides and fertilizers, road run-off, industrial breaches, and, worst of all, untreated sewage pour into bodies of water. According to WaterAid's Water Quality Index, India ranks 120th out of 122 countries. So address this serious issue A digital handheld water quality testing instrument is an absolute necessity.

ABOUT THE TECHNOLOGY

This unique innovation uses Colorimeter technology to determine the concentration of a material in a solution based on the intensity of the color in the solution. If the solution to be tested is a colorless liquid, a reagent is added, which reacts with the liquid and produces a color. The colorimeter then determines the range contained in the water using Beer-law. Lambert's The current prototype supports VNC over Wi-Fi, however it is relatively simple to develop data transmission protocols to meet specific needs. They are now attempting to develop a method that will allow them to geolocate the gadget.

FUNDS RAISED/ACHIEVEMENTS

Raised INR 12.50 lakhs grant-in-aid from National Jal Jeevan Mission challenge.

PRODUCT IMAGE



USP

- Compact device with high battery back –up which makes it more reliable for field users.
- Easy to use – Can be connected to mobile app for smoother operations and data entry.
- Fast Charging & in-built battery.
- Lightweight & Easy to carry across the field .

END USERS/CUSTOMERS

- Government agencies to monitor water quality (state level & panchayat level requirements).
- Water purifiers company
- Domestic Households
- CSR Activities