

ABSTRACT

Shrimp is part of the fisheries sector which has the potential to increase the country's foreign exchange. Indonesia has adequate facilities, climate, and resources so that the opportunity to develop shrimp farming is quite large, especially if it is supported by the latest technology.

Today's highly developed technology can facilitate and maximize the cultivation of shrimp ponds. One of the reasons is the quality and content of dissolved minerals in the water in shrimp ponds which can be monitored by cultivators anywhere and anytime directly through a smart phone connected to the internet. Parameters that can be monitored by this system are temperature, total dissolved solids, and pH levels.

The results obtained from this study are that the device can be realized and tested directly in the form of a ready-to-use system instead of a prototype and monitors water quality parameters in real time which has the potential to increase the flexibility of work of shrimp farmers with the latest technology

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