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

Keywords: Shrimp, Pond, Cultivation, Technology, Quality

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