INTERNET OF THINGS (IOT) PROTOTYPE FOR BIOFLOC FISH CULTURE

Biofloc Fish Culture

 Biofloc Technology is an environment friendly aquaculture technique and is considered as new “blue revolution” since nutrients can be continuously recycled and reused in the culture medium, benefited by the minimum or zero-water exchange.

 Biofloc is the suspended growth in ponds/tanks which is the aggregates of living and dead particulate organic matter, phytoplankton, bacteria and grazers of the bacteria.

Need of IoT technology for biofloc fish culture

- The success of biofloc culture depends on the water quality.
- Temperature, dissolved oxygen (DO), pH, salinity, total dissolved solids, total suspended solids, alkalinity, are some of the parameters that should be continuously monitored in this technology.
- The constant monitoring of different factors and maintaining them at proper levels using manual methods is very difficult and at most of the times observation errors may cost the system very badly.

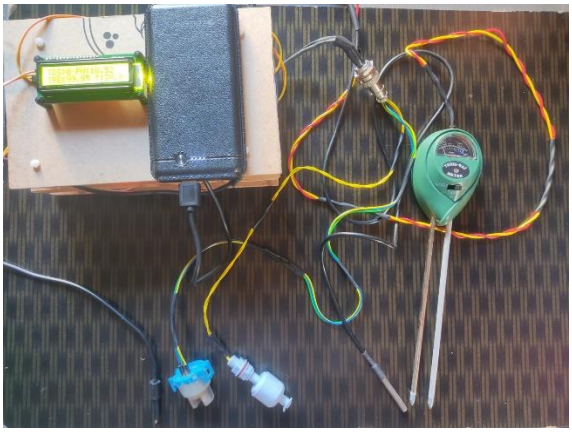

Fig 1: IoT prototype for Biofloc Fish Culture

Potential buyers: Fish Farmers, Biofloc fish famers, RAS farmers, Researchers, Fisheries students and others