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(57) Abstract :
ABSTRACT REAL TIME MONITORING OF WATER QUALITY AND FEEDING DEVICE FOR FISHERIES USING INTERNET OF THINGS 5 lOT based real time monitoring of water quality and feeding device for fisheries comprises of a pH sensor (101), a temperature sensor (I 02); a light intensity sensor (I 03); a dissolved oxygen sensor (I 04); a total dissolved sensor (105); a chlorine/ nitrogen sensor (106); a water level sensor (107); a air cooler (108); a aerator (109); a grow light (110); a feeder (111); a water pump (112); and a camera 10 module (113). The real time monitoring of water quality is maintained with the inputs from these sensors to the Arduino Mega (114) then to Raspberry Pi (115). The Raspberry Pi (RPi) (115) is computing the input data with the help of Artificial Intelligence (AI). Which further send instructions to actuators to take measuring actions. The feeder is capable of dispensing the fish feed at the 15 predefined time. The visuals from the camera to the microcontroller which further analyses the floating feed on water and take appropriate action.

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