The circuit diagram consists of a temperature sensor, a pH sensor, a Node MCU ESP8266, power supply (18650 cells) and a step-down buck converter. Each 18650 cell is of 3.7 V. Two cells are connected in series to get a voltage of 7.2 V and are connected to input of the buck converter. The buck converter used is DC-DC step down buck converter used to step down the 7.2 V to 5 V required to operate the water monitoring system. The temperature sensor is a digital sensor and pH sensor is an analog sensor. The data pin of pH sensor is connected to the analog pin of the microcontroller and the data pin of temperature sensor is connected to the digital pin of the microcontroller.