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AIM:

To develop a microcontroller-based prototype which alert the user whenever there is more sludge level in the Water Tank.

RESULT:

The microcontroller-based prototype which alerts the user whenever there is more sludge level and helps to clean the water tank is successfully developed and tested. The prototype was able to measure the sludge level through an ultra-sonic sensor in the water tank and turn on the LED indicator and buzzer to alert the user when sludge level is less than the threshold value.

The Prototype is indulged in operating reliably in variety of conditions, including different water temperatures and turbidity levels.

The results of the study suggest that the microcontroller-based prototype is a viable solution for monitoring the sludge level in water tanks and alerting users to clean the tanks when necessary. The prototype is simple to build, affordable, and can be easily customized to meet the specific needs of the user.

The prototype can be used in a variety of settings, including households, businesses, and schools. It can also be used in remote locations where it is difficult to access water tanks regularly.

Overall, the results of the study are positive and suggest that the microcontroller-based prototype has the potential to significantly improve the water quality in many parts of the world.