

## **ABSTRACT**

Radio is a communication tool that can be accessed by most people, so it can be used as a medium of information. The number of radio broadcasts which have not been utilized optimally, so its need for the development of radio technology not only receive audio radio broadcasts. Thus to delivery of information that is given can be more diverse.

On this research designed an information system that can transmit information using RDS radio station. The device that is designed using Si4703 receiver module, Arduino Uno, 2x16 LCD and alarm. Si4703 modules use to catch code from RDS signal that transmitted via FM signal, RDS code will be processed on Arduino Uno to determine the conditions. The data that has been processed from the Arduino will be displayed on the LCD 2x16 and simultaneously to activates different alarm notification.

The system designed to receive information from a radio station with text and condition about water level or water flow in the area that is displayed on LCD screen as well as an early warning alarm notification flood detector.

**Keywords : RDS, Si4703, Arduino Uno, Alarm**