

## ABSTRACT

A public facilities will generate additional value of separate if can give satisfaction to customers in terms of its completeness. One such existing *Transjogya Bus* in the city of Yogyakarta. This fleet has a place that can used to move up and down as well as transit for users who often referred to as Shelter. For the fleet itself is equipped with technology that can provide information about impending fleet and route.

Technologies that can provide such information is a bus detection *Transjogya* using RF Transceiver with voice output and display on the LCD. This project will design and apply on a prototype with YS-1020 RF transceiver capable of receiving and transmitting signals of certain frequencies. RF transceiver in the fleet and will continue to do Shelter connection. So when the bus fleet has entered the working distance range RF Transceiver, shelter will send a signal that will be retrieved by the RF Transceiver in Fleet. From the Fleet will send a fleet information signal which will go into shelter. Shelter will receive that information and will process it further.

This project will generate a prototype that will detect the frequency of the bus fleet *Transjogya*. Where the RF transceiver will provide that signal can be seen the results in Shelter-shelter with two outputs. The main output of the LCD which will display the fleet number and the second output of the voice on the fleet's arrival information. The project is expected to help the user or steward or stewardess for more comfort and ease of use of services in Shelter.