

ABSTRACT

Illegal logging is one of the causes of rapid reduction of forest area which can have various impacts such as floods and landslides. To reduce this, an illegal logging monitoring system device was made that uses sound sensors to detect chainsaw machine. And sending data using LoRA wireless communication module. Later the data obtained before will be displayed to a web page which then forest supervisors can take action if there is a warning. The results from the test at a distance of 100 meters, 200 meters, and 300 meters LoRA transmitter can send data to the LoRA gateway and save it into a MySQL database.

Keywords: LoRA Transmitter, LoRA Gateway, Database, Webpage.