

## ABSTRACT

Motor vehicles are one of the popular means of transportation at this time, due to the ease for help with daily activities. vehicles are also prone to accidents as reported by the print media or electronic media. So that motorists always orderly traffic so the need for laws regulating the vehicle speed limit. Although existing laws governing but in reality there are very many who violate traffic. Risk of accidents will be higher if the speed exceeds the maximum limit, then we need a system that reminds motorists to be aware of when the maximum speed limit has been passed.

This tool is designed using infrared sensors and Arduino Uno. How to make the design of the tool by placing the Infrared Sensor on the rotation of the motorcycle wheel whose role is to calculate how many rotations the motorcycle wheel has. The speed limit that has been set is 60km/hour, if the speed touches above the specified limit, the alarm will automatically turn on and an SMS notification will be sent to the number that has been determined.

**Keywords** – Sensor Infra Red , Arduino Uno, SMS Gateway, Alarm