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ABSTRACT

After the numerous traffic accidents caused by limited stop and other fast passenger busses, The Kerala motor vehicle department issued an order to make speed governors compulsory for all public transport busses. The speed governors ensured that the busses do not go over 60 km/h .Which meant that the main cause of accidents, the over speed of busses, is not a problem anymore.

The speed governors work by regulating the fuel flow if the vehicle is going above the preset speed limit. They have moving parts and hence their maintenance and testing must be done regularly. This is not done properly now. The busses in Kozhikode and other northern district of Kerala are running with inoperative speed governors and is a threat to the lives of passengers and other people on the road.

Asianet news did a news piece on this matter where in they found that the police and other motor vehicles and road safety departments are not well staffed to check each and every vehicle that has speed governors installed.

Our project aims at correcting this problem. The device we propose can track the speed of the vehicle and ensure that the speed governors are working. If any over speeding is detected, then it warns the driver to repair or replace the speed governor. If the driver does not comply and keep speeding, an SMS is automatically sent to the nearby police station with the vehicle number and speed. The police can then fine the vehicle. Once fined, the police station inform the owner of the vehicle and also sends an SMS to the device. The device emits an RF signal till the fine is paid. This ensures that the mobile enforcement unit on the road can pick-up this signal and stop the vehicle to collect the fine. If the fine is paid by the owner, the police can send an SMS back to stop the RF transmission.

The device can also monitor carbon monoxide emission level of the vehicle so that pollution control can be strictly implemented through fining and thus protect the environment.

Our project makes the work of police officers easier and also ensures safety on the roads and cleanliness of the atmosphere.

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