



Assignment Cover Page

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Role of Speed Gun to Reduce Road Accident

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Abstract—The objective of the report was to offer a technology-based solution to road accident that is a major problem for the people of Bangladesh. The proposed approach offers speed gun as solution which can be used to detect speed of vehicles. Data were collected from the survey about many aspects of road accident. The findings demonstrated that the proposed solution is capable of addressing and solving the problem. This can contribute to prevent road accident and save lives of people. Some suggestions were included to solve the issue. The future scope of the solution can be extended by using speed camera and introducing dope test.

Index Terms —Road accident, speed gun, dope test, traffic rules, driving license.

I. INTRODUCTION

A. Background Information

Bangladesh is home to many natural or man-made disasters. Over the years, Bangladeshi people are facing many challenges to deal with disasters. Man-made disasters are increasing in alarming number. Among these road accident is a major one and perhaps the first one that Bangladeshi people are concerned with. As many as 6,686 people lost their lives and 8,600 were injured in a total of 4,891 road accidents in 2020 in Bangladesh. It means on average, roughly 18 people were killed every day in road accidents across the country [1].

B. Overview

The study assesses the importance of implementing speed gun which is also known as speed detectors or radar detectors. Speed gun is a device that can detect the speed of a vehicle and initiate a warning based on the speed limit. Speed gun is one of the most important tools that can reduce road accident, if not prevent it. The report focuses on the importance of introducing new technology and how it can play a big role in a man-made disaster like road accident.

II. METHODS

A. Description of the solution

Challenges are faced while crossing street in Bangladesh. Lives are risked and lost due to recklessness of the drivers, passerby or both. No rules and regulations are followed strictly in roads of Bangladesh which results in mortality. To minimize number of accidents, speed gun (Also known as speed detector) should be introduced. “Radar detectors simply act as radio receivers, picking up the specific frequencies used by radar devices, specifically radar guns used by police to identify and catch speeding cars” [2]. It can be said it is one of the many solutions to solve the issue.

B. Methods Used

A questionnaire-based survey on road accident in Bangladesh was conducted among 23 college undergrad and

graduate students. Google form was used to prepare the questionnaire and as a medium to distribute it. 10 questions were created and distributed to the participants. They were given a flexible deadline for submitting. Response were taken from November 15 to November 22 of the year 2021.

C. Rationale of selecting participants

The students were chosen for the survey because they are up to date with the technology. This group was given priority for their availability and quick response on the internet. They were selected individually via texting.

III. RESULTS AND DISCUSSION

A. Results

It could be observed from figure 1 that more than half of the people come across news regarding road accident in Bangladesh between 1 to 3 times.

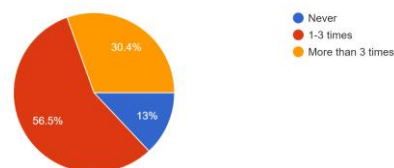


Fig. 1. Number of times news of road accident appear to people a day

Figure 2 illustrates road accidents should be blamed on both the driver and the passer-by by two-third.

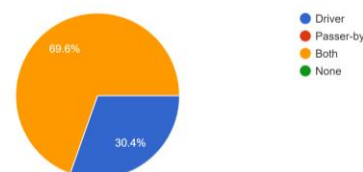


Fig. 2. People to be blamed for road accident

Bar chart of figure 3 indicates how hard it is for people to cross the street on a scale of 1 to 10 where 1 represents it's the easiest task and 10 represents it's the most difficult one. The bars are higher from 6 to 10 on the scale and they accumulate to almost 83 percent of the result. This result suggests crossing road is a difficult task than an easy one for most people.

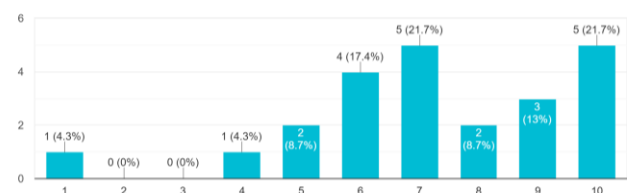


Fig. 3. Difficulty of crossing road for people

It could be noticed from the pie chart of figure 4 that at least one family member or a relative was involved in a road accident of two-third of the people.

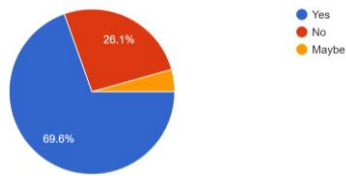


Fig. 4. Family member or relative involved in road accident

Figure 5 shows the consequences for drivers if they overspeed. Lower value of losing points indicates it is less likely that driver's license would be revoked if he/she overspeeds. On the contrary, drivers face fine along with jail almost half of the times of overspeeding.

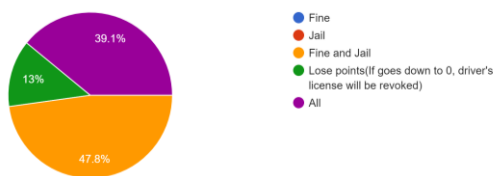


Fig. 5. Penalty of overspeeding for a driver

From the illustration of the pie chart of figure 6, almost half of the people strongly agreed on implementing speed guns. No one disagreed or strongly disagreed on implementation.

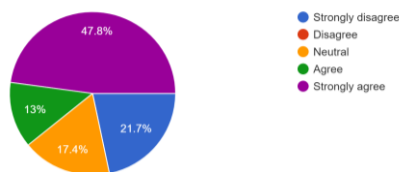


Fig. 6. Implementing of Speed Guns

B. Discussion

From the data in the result section, it can be said that the solution to the problem of road accident is going to minimize if speed guns are introduced. One of the major findings is how hard it is for people to cross the street. Almost 83 percent find it hard to cross the street. If overspeeding can be reduced it will make it easy for people to cross the street. 70 percent of people think both the driver and the passenger should be blamed for a road accident. In contrast, only 30 percent believe it's driver's fault alone.

As most of the respondents agreed on implementation of speed guns, it suggests drivers will be aware of speeding and follow the rules if it is implemented by the Government of Bangladesh.

IV. CONCLUSION

To conclude, road accident is a major problem in Bangladesh. Many people die or get serious injuries which are permanent due to this issue. One solution is not enough to prevent it. If speed camera, dope test among others are introduced then it will definitely create an impact on the road accident. The solution of introducing speed gun is one

parameter to resolve the issue. People have to be extra careful to cross the street. Many times people are careless or in a hurry while crossing the street. Awareness of people and proper implementation of the technology which are beneficial in reducing road accidents can help to solve the issue of road accidents greatly.

This research should be done in large scale and government organization should conduct a research on how speed gun or other devices can help in minimizing road accident.

A. Limitation

Speed gun alone cannot solve the issue of road accident in Bangladesh. Speed camera is a device that uploads speed and license plate data to a database and the appropriate fine is then mailed to the car's registered owner, no sirens or traffic stops required [3]. Contrary to that, speed gun only detects the speed and nothing more. To identify the driver more accurately speed camera can play big role in the street. Drivers will be more cautious on breaking rules which will decline casualties and ultimately road accidents.

Dope test is another limitation of this study. According to Prime Minister Sheikh Hasina, "We need to know whether those who're driving [vehicles] use drugs. They need to undergo dope tests. This test of every driver is absolutely essential" [4]. Dope test can also reduce accidents. Drivers get drunk while driving. This issue is dangerous for pedestrians and the driver's life is at stake as he is not sober. PM of Bangladesh suggests the test as it is critical [4]. From figure 3, it is shown that most of the people find it hard to cross the street and one of the reasons for that is they have no idea about driver's state for example if he is sober or not. By drinking, driver can pass out as well which could be catastrophic.

B. Suggestions

These are some suggestions that were recorded from the responses. First one suggests that people should be more aware and they should be educated. Another suggestion is that traffic rules should be strict to be followed. Removing corruption and proper training are to be followed to obtain a license is what one of survey taker suggests.

V. REFERENCES

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VII. APPENDIX

