

References

- Volvo's Accident Research Team (2013). Why do traffic accidents happen? *European Accident Research and Safety Report*, 10-12.
- Ung Chun Hour, H. E. (2007). *Country Report on Road safety in Colombia*. Royal Government of Colombia.
- Kabbach Jr., F. I, Suzuki, C. Y., & Trentin, L. C. (2011). *Case-Studies of Influence in Rainfall Intensity on Safety conditions*. 12th International Conference on Urban Drainage, Porto Alegre / Brazil.
- Whitelegg, J. (1932). *Road Safety: Defeat, complicity and the Bankruptcy of Science*. Department of Geography, University of Lancaster, Bailrigg, Lancaster, England.
- Road Development Authority (1998). *Geometric Design Standards of Roads*. Road Development Authority, Sri Lanka.
- Elvik, R., Vaa, T., Erke, A., & Sorensen, M. (2009). *The handbook of road safety measures* (2nd ed.). Emerald Group Publishing Limited, ISBN: 978-1-84855-250-0.
- Rosolino, V., Teresa, L., Vittorio, A., Carmine, F. D., Antonio, T., Daniele, R., & Claudio, Z. (2014). *Road safety performance assessment: a new road network Risk Index for info mobility*. Department of Civil Engineering, University of Calabria, Arcavacata Campus, Cosenza, Italy.
- Odero, W. G. P. & Zwi, A. (1997). *Road traffic injuries in developing countries: a Comprehensive review of epidemiological studies*. Tropical Medicine and International Health.
- Esmael, M. O., Sasaki, K., & Nishii, K. (2013). *Road Traffic Accident Trend in Developing Countries - The Policy Implications*. Eastern Asia Society for Transportation Studies.
- Department of Transport (2014). *Reported Road Causalities in Grade Britain: Main Results, 2013*.
- International Traffic Safety Data and Analysis Group (2015). *Road Safety Annual Report 2015*. International Transport Forum, 2015.
- Hossain, A., & Gargett, D. (2011). *Road vehicle-kilometres travelled estimated from state/territory fuel sales*. Bureau of Infrastructure, Transport and Regional Economics, Department of Infrastructure and Transport, GPO Box 501, Canberra ACT 2601, Australia.

Jayasekera, D. A. S. (2013). *Estimation of Vehicle Kilometers Travelled in Sri Lanka*. Dissertation for the degree of Master of Engineering in Highway & Traffic Engineering, Department of Civil Engineering, University of Moratuwa, Sri Lanka.

Transportation Engineering Division (2014). *Audit on Southern Expressway*. Department of Civil Engineering, University of Moratuwa.

Mohamed Omer Esmael, Kuniaki Sasaki, Kazuo Nishii.. *Road Traffic Accident Trend in Developing Countries- The Policy Implications*, Proceedings of the Eastern Asia Society for Transportation Studies

International Traffic Safety data and Analysis Group (2015). *Road Safety Annual Report Summer*, International Transport Forum, 2 rue André Pascal, 75775 Paris Cedex 16,France.

Planning division. “*Monthly accident data in Southern Expressway*” Road Development Authority.

Traffic Division. “*Annual Report of road Traffic Accidents* “, Sri Lanka Police Department (2011, 2012, 2013)

Jacobs,G.D.,& Amy Aeron-Thomas(2000). *A review of global road accident fatalities*. Today pp(4-5).Retrieved from <https://www.google.lk>

Yamuna Expressway, Pune Expressway. Retrieved from <https://en.wikipedia.org>
 University of Moratuwa, Sri Lanka
Electronic Theses & Dissertations
www.lib.mrt.ac.lk

Annexes

Annex 1: Accident Recording Form of EOMMD - RDA

Southern Expressway

Road Accident Report

1. Exact Location:

Two nearest functional km or km post upward and downward of accident location with side (L or R)

Upward km post

Downward km post

2. Day, date, and Time

Day	d	d	m	m	y	y	y	y	h	h	m	m
-----	---	---	---	---	---	---	---	---	---	---	---	---

3. Road Surface condition:

Dry	Wet	Flooded with water	Slippery
-----	-----	--------------------	----------

4. Weather:

Clear	Cloudy	Rain	Fog/Mist	Other
-------	--------	------	----------	-------

5. Light Condition:

Daylight	Dusk, Dawn
Night, No street lighting	Night, improper street lighting
Night, good street lighting	

1. Number of vehicles Involved:

2. Category of vehicle/s involved, speed, vehicle number, and year of manufacture:

Vehicle involved	Speed	Vehicle Number	Year of manufacture

8. Reason/s for the accidents:

Speed	Merging
Negligence	Sudden Stopping
Bad Driving	Vehicle
Alcohol	Road (Signboard, marking, visibility etc.)
Fatigue	Weather
Overtaking	Mobile Phone

9. Severity

Fatal	Grievous	Non -grievous	Property Damaged only
-------	----------	---------------	-----------------------

10. Crash patterns / Collision diagram: (Please draw below)

11. Brief description of the accident: Explain the collision and subsequent of the collisions if any)

12. Number of persons Killed:

13. Number of persons injured:

14. Severity of the damage to the vehicle:

<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------

15. Fixed objects or road furniture damaged and severity:

Crash barrier in the middle	Low/Medium/High
Crash barrier on embankment slopes	Low/Medium/High
New jersey Barrier	Low/Medium/High
Light poles	Low/Medium/High
Road studs	Low/Medium/High
Bridges	Low/Medium/High
Culverts	Low/Medium/High
Sign board	Low/Medium/High
Other	Low/Medium/High
	Low/Medium/High

16. Remarks if any:



University of Moratuwa, Sri Lanka.
 Electronic Theses & Dissertations
www.lib.mrt.ac.lk

Annex 2: Accident Prone Locations



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk