

School Road Safety Assessment in Nepal: A Case Study Using SR4S Ratings

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Abstract

Road Safety has been a concerning issue in the world. The number of road traffic fatalities is escalating, especially in Low-Middle income countries and among the age group of people between 5-29. The case has been similar in Nepal as well. Children are particularly more at risk in Nepalese road due to the lack of road safety furniture on roads more specifically around the school areas. Most Children are forced to navigate their ways to school using roads with no road safety infrastructures like speed limit, speed calming devices, pedestrian crossways etc. In this study, Star Rating for School (SR4S) application was used to assess the road safety condition of a public school based on Nuwakot district of Nepal. The school facilitates more than 1300 students and is very near to the Pasang Lhamu highway. The data collected through the survey for the checklist provided by SR4S tool, was coded in the application and the rating was assessed. Interventions were suggested and implemented by school's administration and was again assessed for rating.

Keywords: Star Rating, School zone safety, Road safety

1. Introduction

While there is 5% reduction on overall road traffic fatalities (RTT), the reason of death among the age groups of 5-29 prevails to be road traffic accidents. More than 50% of the death are among the vulnerable road users (VRU) which includes pedestrian, bicyclist and motorcyclist (WHO, 2023). Children under 16 are the most vulnerable during any crash. Hence, school areas are at more risk and their safety assessment needs to be ensured to prevent any casualties. The escalating number of road traffic fatalities in Nepalese road raises the serious concern about road safety. The total number of road traffic fatalities in Nepal rose from 1,131 in 2008 to 2,883 in 2022 with an increase of 155% (WHO, 2023). These crashes have also burdened the country's economic. The total cost of road crashes in Kathmandu Valley for the fiscal year 2020 was calculated a NRs. 1827.67 million (Rizal & Tiwari, 2023). Although school are highly sensitive areas and caution to prevent any casualties must be prioritize, the school areas in Nepal are mostly not equipped with road safety furniture, increasing the exposure of risk to the children.

The flow in and out of the school area increases during the peak hour and the roads are generally busy during those time. This increases the risk of accident if road safety is not encouraged. It has been estimated that implementation of 30Kmph speed limit could reduce the child fatality and pedestrian injury by 70% (UNICEF, 2022). Such cost-effective interventions such as speed calming devices, traffic signs, etc., could be beneficial to provide a safe road environment to children, consequently promoting safer school zone moto. In Nepal, strict implementations of road safety infrastructures around school are not enforced yet. Little to no safety concerns can be seen around the school area, risking the life of hundreds of students. Some guideless can be found for students to navigate their way safely to school, however, the safety furniture are still not implemented compulsorily.

Star Rating for schools (SR4S) is an award-winning assessment tool that helps us identify the exposure of risk to the children during their journey to school (SR4S, n.d.). The iRAP Star Ratings measure the risk of road and provides the assessment in terms of rating where 1 star being the least safe and the safest as 5 stars and a minimum of 3 star is preferred (Tiwari & Luitel, 2023). The Star Rating for Schools uses the pedestrian

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