

**CENTRE OF STUDIES
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FLOOD PROBLEM IN MOTORCYCLE LANE

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ABSTRACT

The important element in highway is drainage. The drainage system must be designed based on the standard required to take water off from the surface of the highway. The factor of a flooding problem at highway can occur when the drainage was blockages and damage. However, the flood problem can prevent, if well maintenance. Another factor of flood problem in highway is waterlogged or over capacity, slope of the pavement and construction of drainage. Flooded and waterlogged roads result when the amount of water falling on the road is greater than the capacity of the drainage facilities that take it away. This is related to the design and construction of drainage. The poor design can direct water back onto the road and if too much water remaining on the surface, base and sub-grade can cause potholes, crack and pavement failure. The researcher also does the research on safety to the motorcycle rider. The safety to the motorcycle rider very important and was the user satisfaction and requirement about the highway. Furthermore, not only the safety that must required, the comfort, mobility, efficiency and productivity also requirement that should be provided. Allowing motorcycles to move more freely through traffic could help reduce overall congestion, and potentially reduce some types of motorcycle crashes. In some case, it may also reduce motorcycle rider travel time.

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CHAPTER 1: INTRODUCTION

1.0 INTRODUCTION

In 1980, the Government was established the Malaysia Highway Authority (MHA). The purpose of the Malaysia Highway Authority is to design, construction and maintaining include the North- south Expressway and Penang Bridge. However in the middle 80's the operations had been privatized. The agreement between government and private through the private finance of long term, it makes sure the operation services continued.

According to Ahuja. T.D, Birdi G.S (1975), on roads with high level of traffic, conflicts between vehicles may be created when heavy commercial vehicles and fast moving cars have to share the same roadway facility with the less protected and slower vehicles such as motorcycles, mopeds and bicycles. On these road sections, separation of motorcycle flows from other traffic will not only improve link accidents with motorcycle but can also improve the traffic flow especially when motorcycle traffic is heavy.