

Pavement Marking as a Means of Traffic Control Device for an Urban Intersection as per Indian Practice

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Text

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Abstract

Road markings are an integral part of our road geometrics but are unfortunately being considered as passive traffic control devices. These can actually be used as a means of Intersection control. Polo-View intersection lies in the heart of Srinagar city which is the summer capital of the state of Jammu & Kashmir in India. This intersection is a place of main commercial activity of the state (Central Business District) and has a historic, cultural and tourism importance. A detailed investigation of the said intersection is done and all the parameters are calculated and evaluated. Based upon the traffic flow there are many possible solutions to the Intersection Control. As all the software's which are used to evaluate different options of Intersection design like PTV Vissim are not applicable in India, therefore traditional Traffic flow curves between major and minor roads are used for evaluations. Based upon these curves there are many solutions and each one is weighted. Traffic markings are an integral part of every road, therefore their respect and compliance are the pre-requisites for harmonious flow conditions, when these things are integrated with effective markings these form an important form of intersection design. We have aimed at designing these different possible Intersection types and then suggesting the best out of them as well as their long term implications. We have also taken into account how the Autonomous Vehicles may change the type of Intersection control.

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Uncontrolled Component, Road Markings, Traffic Control Devices, central Business District,

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