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TITLE OF PROJECT: Analysis of traffic congestion at “Y” junction near Bhumkar chowk

NAME OF ALL AUTHORS: Dipak Shinde, Prathmesh Suryawanshi, Mustakim Shaikh, Maroti Shirfule

NAME OF YOUR MENTOR: Vijay Kumar Saini

NAME OF YOUR COLLEGE: Indira College of Engineering and Management Parandwadi, Pune

ABSTRACT (150-300 words):

The genesis of traffic issues such as accidents, gridlock, delays, etc., particularly in developing country urban areas, is primarily responsible for the astounding rise in the number of motor vehicles on the road. This paper examines the traffic problems and sustainable improvement of road intersections at Bhumkar Chowk, an unsignalized junction with a vehicular underpass, in Pune, India. Vehicle and pedestrian flow at the crossings were studied, and the features of the junction that contribute to delay issues have been identified. Direct field surveys are used to gather information on the amount of traffic, land usage, and pedestrian activity. After the data was analyzed, it became clear that the main causes of traffic congestion were inappropriate junction planning, a deficiency of traffic signals, and unpermitted parking. Several corrective actions are suggested, with an emphasis on junction signalization, alternate operation plans, and improvement.

KEYWORDS: Traffic congestion, Traffic volume, Traffic delay

CATEGORY: Transportation Engineering