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Operational Effect of Replacing Traffic Signal by U-Turns-Case Study of Khanapul on Islamabad Expressway

This paper analyzed the widely-used access management treatment in Rawalpindi/Islamabad, Pakistan: using U-turn instead of traffic signal or direct right turn. Data was collected from a very congested traffic signal at Khanapul traffic signal, Islamabad. The traffic signal was recently closed and traffic was diverted to newly constructed U-turns placed at downstream. Level of service, delay travel time and emissions were computed for both scenarios using Vissim and Synchro 9. It was found that the provision of downstream U-turn was effective in reducing the delay and improving traffic operation.

Keywords: Traffic delay; Travel time; U-turns; Traffic signal; Traffic management.

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