

A parking study in the Central zone of Jalalabad city for making parking policy

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Abstract

Generally, a vehicle is parked longer than it is used, whereas in many cities of the developing countries the facility for parking a car is neglected during the transportation planning stage, and Jalalabad is one of those cities where people tend to prefer using free of charge on-street parking instead of using paid off-street parking. This issue caused the city to face serious congestion, unsafe environment, increase in traffic fatalities, loss of energy and time, and contribute to air pollution and violate the living environment as well. In order to understand the current situation of the parking and people's behavior toward parking usage this study uses the data from observational, revealed and stated preference surveys for analysis, for making a proper parking policy in future.

Based on discrete choice modeling theory, the multinomial logit model is used as parking choice model, which represents the choice of a parking type from a set of three different priced alternatives each of On-street, off-street, and illegal parking, considering its price, access time and safety. The result from parking choice model shows that the parking charge plays a greater role in the drivers parking type selection which followed by safety and access time.