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EVALUATION OF CHRONOLOGICAL ASPECTS OF COLLECTION AND TRANSPORTATION OF MUNICIPAL SOLID WASTE (MSW) SYSTEM IN URMIA

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Abstract:

Municipal solid waste (MSW) is a serious environmental hazard and social problem in Iran. Currently a high volume of solid waste is generated every day in the district towns of Iran and unfortunately solid waste management is being deteriorated due to the limited resources to handle the increasing rate of generated waste. Due to this fact that more than 60% of solid waste management cost is usually allocated for purpose collection and transportation of generated solid waste in the city. Analysis of this section and understanding of its effect on the management system could have a great role in reduction the costs and solving many of exist problems. This study illustrate the effectiveness of timing managing an MSW economy and that has been carried out as a case study in Urmia. Results of this research illustrates that 58.3% in Neisan, 68.7% in Khavar, 61.5% in Benz, 81.3% in Compactor and 59.3% in FAUN Of each cycle time is pickup time.. Mean of traveling speed for Van, Mini-truck, Truck, FAUN and Compactor was 35,46,41,38 and 42 kilometer per hour respectively. Total spent time for collection and transportation of solid waste were 1:21 hour with Van, 1:23 hour with Mini-truck, 1:29 hour with Truck, 17 minutes with FAUN and 57 minutes with Compactor. Result of this study illustrated Van is the most economic vehicle for solid waste collection system in Urmia city. Generally, priority to usage of solid waste collection vehicles illustrate in below: Truck < Mini-truck < Compactor < Van < FAUN

Keywords:

MSW , collection , timing components , Urmia

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