

Abstract Details

Title: Addressing Traffic Congestion Problem at (Alsinaat) Intersection-Omdurman (State of Khartoum, Republic of Sudan-2015)

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Abstract: The city of Omdurman has recently seen an increasing population growth, particularly in urban areas, a growth that has led to increased traffic problems. A distinctive feature of the city of Omdurman is that it is served by main streets that pass through from the nearby capital city, Khartoum (see Fig.1). Alshingeety Street is considered to be one the most important streets in Omdurman since huge numbers of vehicles pass through it, with a number of intersections, the most important of which being Alsinaat (industrial areas) (the intersection of Alshingeety Street with Alrabat Street) (see Fig.2). This paper aims at exploring the ways and means of improving the smooth flow of traffic at Alsinaat Intersection through the study of its engineering characteristics. In addition, the study aims at studying the traffic position, determining the peak hours, service levels at the intersection and then put together the necessary short term recommendations, both for the present problem and for the long term ones. The study has made conclusions and recommendations that could help in improving the present traffic situation.

Keywords: Traffic Congestion, Analysis of Service Levels, Alsinaat Intersection.