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ABSTRACT

In 2013, construction of a runway in Kandy has been initiated to enhance the transport facility to Kandy through the development of domestic aviation and the constructions have been abandoned in 2015. Analysis of the aviation demand is one of the pre-requirements to decide the construction of a new runway. The aim of the research was to examine the domestic aviation demand for scheduled flights for a runway in Kandy. In this research, number of passengers for schedule flights and schedule aircraft movements that the airport would generate and the demands to base aircraft at an airfield in Kandy were estimated. Present trend of domestic aviation field in Sri Lanka, factors effects on aviation demand, methods of aviation demand forecasting, factors which affect on demand were identified through the literature review. Decision analysis was the method used for analysing where analysis is done by the combination of both qualitative and quantitative techniques using both primary and secondary data. The techniques used for analysing were regression analysis, potential user survey and trend projection methods. The demand for scheduled flights for a runway in Kandy was estimated through a model which was formulated as per the outcome of the liner- regression analysis. It was found that there is no significant demand for scheduled flights to Kandy and no demand to base the aircraft at a runway in Kandy at present. Passengers for scheduled flights and number of scheduled flights for runways show a decreasing trend according to the historical data, but there is a demand for charter flights and training flights for a runway in Kandy. The recommendations have been made on findings of this study in need of constructing a runway in Kandy which will be useful for the decision makers and policy makers of transport sector in the government for future developments.

Keywords: Aviation Demand, Domestic Aviation, Decision Analysis, Liner-Regression, Potential User Survey, Trend Projection, Gravity Model, Scheduled Flights, Guest Nights.