

# 1 **Travel Behaviour of Public Transport Passenger at Kandy City under** 2 **Unplanned Terminal Setup**

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5 **Abstract:** Kandy is the 6<sup>th</sup> largest city in Sri Lanka which has 158,561 of population as  
6 per the survey carried out by Census Department of Sri Lanka in 2012. Kandy is the  
7 most developed city within Kandy District and hence significant trips are terminated at  
8 City Centre as the destination itself and for transfers to other destinations connected  
9 through the public transport supply setup at present. As an ancient city, Kandy is in  
10 high demand as a tourist destination. Presently, Kandy City is facilitated with both rail  
11 and road transport network. Kandy Railway Station, Good Shed, Torrington and Clock  
12 Tower bus terminals as well as the bus stops at Kandy Hospital are the key public  
13 transport terminals located in the heart of Kandy City. However, poor mode integration  
14 at the public transport terminals has lead for an inefficient transport supply system in  
15 Kandy as at now. As a result of this improper connectivity among public transport  
16 terminals, excessive passenger detouring, excessive walking distances, high magnitude  
17 of transfers are observed. All the above matters has significantly affected to the  
18 prevailing traffic congestion in Kandy City Roads.

19 As a result of the excessive transfers due to present unplanned terminal set up, there are  
20 increased substantial unproductive travel distances for the public transport users  
21 encouraging them to use para transits modes which create more congestion situation in  
22 the city centre. Kandy City shows some special transport activity demand attributes  
23 where weekends are much congested as weekdays due to the tourist attractions as well  
24 as for weekend private tuition classes. The major national schools are located at the  
25 heart of the city and hence, there are many educational based trip attractions by public  
26 and private passenger vehicles creating congestion waves in the morning and mid peaks.  
27 The public passenger OD data covering over 20,000 passengers over 4 days in Kandy  
28 City Terminals are used to identify the travel behaviour of the present users. The  
29 analysis is focused on how they manage with the existing transport supply setup and  
30 what major issues are required to be addressed in planning of future multi model public  
31 transport terminal in Kandy City. Category analysis techniques for various transport  
32 attributes such as travel distance, purpose based travel, transfer and interconnectivity  
33 between the Terminals has been focused in this research paper.

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35 **Keywords:** Travel Distance, Transfers, Trip Purpose, Public Passenger Demand, Mode  
36 Shift  
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