

## **CHAPTER 4**

### **METHODOLOGY & DATA COLLECTION**

Primary data were collected from origin/destination survey and boarding counting survey. A bus-rail O-D data matrix was compiled from 2009 survey. Three day station boarding counts were obtained from 10 stations within the study area. Passenger interview data was obtained from 4003 bus passenger's responses and 8362 rail passengers' responses, from interviews conducted at 28 bus stops/stands and 10 rail stations within urban and sub urban areas of Colombo. Number of responses was collected from each location. Railway stations and bus terminal (or stand) were being covered simultaneously.

Urban Transport unit of the National Transport Commission conducted an origin and destination survey and boarding counting survey in urban and sub urban areas of Colombo. 10 stations and 28 locations where vastly affect for bus passenger demand, and as bus stops and major transaction points were selected. Whole survey was conducted during the period from 24.06.2009 to 09.08.2009. Two hundred enumerators were employed. Amongst them there were undergraduates of the University of Moratuwa, University of Colombo, Employees of Sri Lanka Transport Board, Sri Lanka Railway and Western Province Passenger Transport Authority. In order to ensure the reliability of data surveys were done by employing well trained enumerators.

Data collected only at Dematagoda station and surrounding bus stop as it is one of the most suitable platform for rail bus integration. The whole survey was carried out by National Transport Commission in collaboration with Sri Lanka Railway, Sri Lanka Transport Board and Western Province Passenger Transport Authority. The urban transport unit of National Transport Commission made significant effort on accuracy of the results. Before the survey sketches of each location were mapped. And then it was planned how many enumerators employ in each location for passenger interview and boarding counting. Each of them were given sketch map of the location and was pointed out how when and where each commuter are interviewed and boarding counted. Just

before the survey all enumerators were undertaken field rehearsal. Survey time duration was 12 hours started from 6.00 am to 6.00 pm on Tuesdays and Thursdays. Two enumerators were assigned to a bus to collect these data during peak and off-peak periods of the day.

Boarding count of bus passengers was 4003. Out of them 150 were interviewed. Out of 8362 the rail passengers subjected for boarding counting 449 were interviewed during the said duration at Dematagoda Station and surrounding bus stop towards Borella. The survey was carried out under a assumption that all rail passengers who get down from Dematagoda station use surrounding bus stop as their transit point for bus. The survey location is shown in the map 4.1.

Figure: 4.1 : Sketch of the Dematagoda Location

