



CONTENTS

Chapter 1.0: National Urban Transport Policy

Chapter 2.0: Jawaharlal Nehru National Urban Renewal Mission – An Appreciation And Understanding

Chapter 3.0: Vijayawada Transport Plan Study

- 3.1 Introduction
- 3.2 Study Area
- 3.3 Earlier Studies
- 3.4 Demography
- 3.5 Economy

Chapter 4.0: Traffic and Road Network Characteristics

- 4.1 Traffic Surveys
- 4.2 Traffic Characteristics
 - 4.2.1 Traffic at Outer Cordon
 - 4.2.2 Traffic Desire at Outer Cordon
 - 4.2.3 Traffic within City
 - 4.2.4 Traffic Speeds
 - 4.2.5 Traffic at Intersections
 - 4.2.6 Road Network Characteristics

Chapter 5.0: Socio-Economic and Travel Characteristics

- 5.1 Household Interview Surveys
- 5.2 Socio-Economic Characteristics
- 5.3 Travel Characteristics
- 5.4 Self Containment
- 5.5 General

Chapter 6.0: Travel Demand Forecast

Chapter 7.0: Vijayawada City Bus System

Chapter 8.0: Vijayawada Bus System Planning and Development

Chapter 9.0: Bus Rapid Transit System

Chapter 10.0: Vijayawada BRT System

- 10.1 Why BRT System?
- 10.2 BRTS Corridors



- 10.3 Corridor Description
- 10.4 Development Plan

Chapter 11.0: BRTS - Cost Estimates

Chapter 12.0: Institutional Reforms

- 12.1 Vijayawada Public Transport Services Co.
- 12.2 Fare Regulatory Authority
- 12.3 Traffic Engineering and Management Unit
- 12.4 Vijayawada Metropolitan Transport Authority
- 12.5 Traffic Management Group
- 12.6 Logistics Support to Traffic Police

Chapter 13.0: Agenda for Action

- 13.1 Agenda



LIST OF TABLES

- Table 3.1 Vijayawada - Existing and Proposed Land Use
Table 3.2 Population Growth Rate: Vijayawada, 1901-2001
Table 3.3 Occupational Structure: Vijayawada, 1971 & 1991
- Table 4.1 CTTS – Traffic & Travel Surveys
Table 4.2 Average Daily Traffic at Outer Cordon Count Stations
Table 4.3 Average Daily Traffic
Table 4.4 Distribution of Road Length by Average Speeds
Table 4.5 Average Speed and Delay on Major Corridors
Table 4.6 Peak Hour Traffic Volumes at Intersections
Table 4.7 Distribution of Road Length by Right of Way
Table 4.8 Distribution of Road length by Carriageway width
- Table 5.1 Population Distribution by Age Group
Table 5.2 Distribution of Population by Occupation
Table 5.3 Distribution of Households by Income Group
Table 5.4 Modal Share of Trips
Table 5.5 Average Trip Length by Mode
Table 5.6 Distribution of Trips by Purpose
Table 5.7 Share of Trips by Mode by Gender
- Table 7.1 Vijayawada City Bus Services Performance Characteristics
Table 7.2 Estimated peak hour bus passenger volumes
- Table 11.1 Vijayawada BRTS – Cost Estimate
Table 11.2 Green Corridor: Mahatma Gandhi Road (Bus Terminal to Kanuru)
Table 11.3 Red Corridor: Eluru Road (Bus Terminal to Ramavarapupadu Junction)
Table 11.4 Blue Corridor: G S Raju Road (Bus Terminal to Payakapuram-Nunna)
Table 11.5 Orange Corridor: S N Puram Road (Bus Terminal to Machavaram Hanuman Temple)
Table 11.6 Yellow Corridor: Root No 5 Road (Eluru road Junction - Executive Club Junction - Auto Nagar)
Table 11.7: Brown Corridor: Loop Road (City Bus Terminal-Goods Shed Junction –VMC Junction- City Bus Terminal)

LIST OF FIGURES

- Figure 3.1 Study Area and Traffic Analysis Zones
- Figure 4.1 Outer Cordon Traffic Survey Locations
Figure 4.2 Screen Line, Mid-block Traffic Survey Locations
Figure 4.3 Intersection Turning Movement Count Survey Location
Figure 4.4 Parking, Pedestrians, Railway Gate Closure, IPT and PT Survey Locations



- Figure 4.5 Traffic Composition at Outer Cordon
Figure 4.6 Travel Desire Pattern at Outer Cordon
Figure 4.7 Through Traffic Desire Pattern of Goods Vehicle Trips at Outer Cordon
- Figure 5.1 Modal Share of Trips
Figure 5.2 Desire Line for All Trips
- Figure 7.1 Total Passenger Volumes on different links of the Major Corridors
Figure 7.1 Public Transport Passenger Volumes on different links of the Major Corridors
- Figure 9.1 Relation between BRT, System Performance and Benefits
Figure 9.2 Transit Development Process
- Figure 10.1 Identified Proposed Bus Rapid Transit System Corridors
Figure 10.2 Proposed Road Cross Section
Figure 10.3 Bus Stops
Figure 10.4 Closed/Open BRT System Operation