Project: Comprehensive Traffic & Transportation Study for Vijayawada City

Document: 2006042/TT/Rep-03/Chap-7 Vijayawada City Bus System

CHAPTER 7.0

Date: December 2006 Revision: R0

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VIJAYAWADA CITY BUS SYSTEM

The bus services in Vijayawada was nationalized w.e.f 01/01/1990 and Andhra Pradesh State Road Transport Corporation (APSRTC) is running the system through its Vijavawada City Division. The fleet size has continuously increased and presently about 400 city buses and 175 long distance buses are operating. Daily, on an average, about 3 lakh passengers are being carried by the system. About 60,000 passes to various categories like students, NGOs etc. are issued.



In addition to city operations, the services extend to mofussil areas like Mylavaram, G Konduru, Tenneru, Predduturu, Kunderu and Valluripalem. Hi-tech services are also run to Hyderabad City.

The Division operates night out services from the near by villages in the early hours to connect to K R Market, Bus Station and Railway Station.

The Division Operates from 5 depots.

Physical Performance

Table 7.1 presents the comparative physical performance of the City Division. An interesting and favourable feature is the high vehicle utilization at 277 km. Compared to other urban operations this is a commendable achievement. However it may also be due to combing with mofussil operations. The earnings per bus have regularly increased. Surprisingly the Occupancy Ratio is low. Energy consumption is very good at 5.21 KMPL. However a disconnecting feature is the trend in its decline.

Table 7.1 Vijayawada City Bus Services Performance Characteristics

SI.	Parameters	Upto December	Upto December	Upto December
No.		2003	2004	2005
1	No. of Schedules	378	391	419
2	Fleet Held	321	420	445
3	No. of Routes	120	112	110
4	Average Operated Kms (in lakhs)	1.08	1.17	1.19
5	Average Earning (in lakhs)	13.41	14.70	15.42
6	Average E.P.K.	12.42	12.58	13.00
7	Average V. U.	270	278	277
8	Earning per Bus	3350	3499	3595
9	Occupancy Ratio	56	56	59
10	Break Down Rate	0.13	0.08	0.12
11	Average HSD kmpl	5.32	5.27	5.21
12	Lub. oil kmpl	811	8.07	848



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Note:

- 1. The Total no. of routes are reduced duly eliminating most of the Suffixes to streamline the, operations for the convenience of the public
- 2. After the widening of the roads many representations received from the public regarding survey of the route lengths. As per the representations routes surveyed and reduced 1163 kms per day in Vijayawada city. This is the one of the points for reduction of KMPL.

Source: Brief Note on Vijayawada City Division (Glance), APSRTC, Vijayawada

Route Network

The bus route network within the city extends over 65 km. The routes radiate from the City Bus Terminal located along NH-5 near Rajeev Park. A large extent of city area is not well served by the route network. This is due to non availability of good link roads with adequate capacity to enable efficient movement of buses.

Bandar road, Eluru road, G S Raju road, C K Reddy road, Ajit singh-Payakapuram road, Vidyadharapuram road and Root No 5 road are the major bus route roads.

There is a need to rationalize and organize the route network such that any location in the city is within a distance of 500 to 600 metres from a bus route. This calls for extensive improvement to and development of the road network system.

Traffic on Route Corridors

Traffic surveys provide extensive data on traffic volumes on road links by modes and occupancy. The data are presented in **Figures 7.1**.

Generally the total traffic volumes, in terms of vehicles, range between 1219 and 70,829 vehicles per day (16 hours). However by PCUs, the range is between 1839 and 78,551. Weighed against the road capacity, it indicates that most of the links are saturated. This is reflected in terms of low speeds. There is a need to improve the road capacity by widening and other measures.

Of the traffic by vehicle numbers, buses account for 0.2 to 14.5%. However, by PCUs, buses account for 0.7 to 26.9% of the traffic.

The passenger volumes by modes present a contrast and highlight the importance of bus system. The share ranges between 3.9 and 83.9. The bus passenger volumes range between 1680 and 2,92,762.

While assignment of future travel demand as part of travel demand modeling will provide future PMT traffic volumes on different corridors, at this stage a tentative estimate is made based on the growth in bus passenger demand from about 3 lakhs passenger per day to about 16 to 18 lakh passengers per day. This would mean a potential increase of bus passenger volumes on road links by about 4 to 5 times. **Table 7.2** presents the estimated peak hour per direction bus passenger volumes on different links of the major road corridors. **Figure 7.2** depicts the potential bus passenger volumes on road network.

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Table 7.2: Estimated peak hour bus passenger volumes

Police Control Room- Governerpet Jn 12802 51208*	Direction	Bus Passengers Peak hour Peak direction	Estimated Bus Passengers Peak hour
Governerpet Jn - Ranga Status Jn	Dell'es Control Dans Control 1	(2006)	Peak direction (2021)
Ranga Statue Jn - Stadium Jn. 6933 27732			
Stadium Jn - Benz Circle 8997 35988			
Benz Circle - NTR Statue Jn			
NTR StatueJn - Auto Nagar Jn			
Auto Nagar jn - Siri Labs Governerpet Jn - Root no-5 Root No5 - Swarna palace hotel jn Swarna palace hotel jn - Vijaya takies Jasob			
Governerpet Jn - Root no-5 7530 30120			
Root No5 - Swarna palace hotel jn			
Swarna palace hotel jn - Vijaya takies 3865 15460 Vijaya Takies jn - Chuttugunta Jn 3080 12320 Chuttugunta - Gunadala 3177 12708 Gunadal- Ramavarapupadu Jn 3565 14260 Varadhi Road (NH-5) 7547 30188 Benz Circle - Vardhi jn 6593 26372 Benz Circle - Executive Club Jn 4825 19300 Executive Club jn - Ramavarapupadu jn 4785 19140 Ibrahimpatnam - Gollapudi 9411 37644 Gollapudi - kummaripalem Jn 10350 41400 Kummaripalem - Ashok pillar jn 8231 32924 Ashok Pillar - Pottisreeramulu Jn 3545 14180 Potti Sreeeramulu jn - Barrage 2302 9208 Bus stand-WC-barrage 3207 12828 Fire Station jn - Bus stand jn 17559 70236 Varadhi - Fire Station Jn 17566 70264 Prajasakti nagar road (root no-5) 666 2664 Madhu Kalyana Mandapam Road 692 2768 Nuzvedu - Pipula road Jn <t< td=""><td></td><td></td><td></td></t<>			
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Swarna palace hotel jn - Lenin center 3236 12944			
	Police Control Room- Goods shed Jn	11006	44024

^{*} includes traffic of Bandar road and Eluru road

Source: CES Surveys, 2006

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