



## CONTENTS

Chapter No.	Section	Title	Page No.
<b>1.</b>		<b>Introduction</b>	<b>1 – 5</b>
	1.1	Preamble	1
	1.2	Study Area Demography	2
	1.3	Connectivity	3
	1.4	Study Background	4
	1.5	Study Scope	5
	1.6	Report Structure	5
<b>2.</b>		<b>Traffic Surveys and Analysis</b>	<b>6 – 38</b>
	2.1	Introduction	6
	2.2	Traffic Surveys	6
	2.2.1	Classified Traffic Volume Count Survey	8
	2.2.2	Turning Movement Count Survey	16
	2.2.3	Pedestrian Count Survey	19
	2.2.4	Speed and Delay Survey	22
	2.2.5	Road Characteristics	24
	2.3	Peak Hour Traffic on Various Roads	37
<b>3.</b>		<b>Traffic Forecast</b>	<b>39 – 57</b>
	3.1	General	39
	3.2	IRC Capacity Guidelines for Urban Roads	39
	3.3	Recommended Design Service Volume for Urban Roads	39
	3.4	Assessment of Growth Rates	40
	3.4.1	Industrial Infrastructure in Nanded District	40



---

Chapter No.	Section	Title	Page No.
	3.4.2	Proposed Industrial Estates	41
	3.4.3	Industrial Infrastructure in Nanded City Limits	42
	3.4.4	Population Projection	42
	3.4.5	Growth Rate based on Past Traffic Data	43
	3.4.6	Growth Rate based on Vehicle Registration	44
	3.5	Suggested Traffic Growth Rates	45
	3.6	Traffic Forecast	47
	3.7	Assessment of Lane Requirement	54
	3.8	Summary	55



## List of Tables

Chapter No.	Table No.	Title	Page No.
<b>1.</b>		<b>Introduction</b>	<b>1 – 5</b>
	1.1	Population Trend in Nanded	2
	1.2	Demographic Data of Nanded City as per 2001 Census	3
<b>2.</b>		<b>Traffic Surveys and Analysis</b>	<b>6 - 38</b>
	2.1	Traffic Survey Locations and Schedule	6
	2.2	PCU Factors for Different Vehicle Categories	8
	2.3	Average Daily Traffic (ADT) on Major Roads	10
	2.4	Daily Variation of Traffic	11
	2.5	Composition of Motorized Traffic	15
	2.6	Summary of Peak Hour Traffic at Intersections	16
	2.7	Pedestrian Traffic	20
	2.8	PV <sup>2</sup> Values at Various Locations	22
	2.9	Average Speed on the Project Corridor	23
	2.10	Peak Hour Traffic on Various Roads (2006)	38
<b>3.</b>		<b>Traffic Forecast</b>	<b>39-57</b>
	3.1	Design Service Volume and Capacity	40
	3.2	Summary of MIDC Industrial Areas in Nanded	41
	3.3	Details of Co-Operative Industrial Estates	41
	3.4	Population Projections	42
	3.5	Average Annual Growth Rate of Past Traffic	43
	3.6	Registered Motor Vehicle Population in Nanded City	44



---

<b>Chapter No.</b>	<b>Table No.</b>	<b>Title</b>	<b>Page No.</b>
	3.7	Growth Rate of Registered Motor Vehicles in Nanded City	45
	3.8	Suggested Traffic Growth Rates for Most Likely Scenario	46
	3.9	Suggested Traffic Growth Rates for Optimistic Scenario	46
	3.10	Suggested Traffic Growth Rates for Pessimistic Scenario	47
	3.11	Forecasted Traffic (Most Likely Scenario)	48
	3.12	Forecasted Traffic (Optimistic Scenario)	50
	3.13	Forecasted Traffic (Pessimistic Scenario)	52
	3.14	V/C Ratio - Do-Nothing Scenario	54
	3.15	Proposed Lane Configuration	56



---

## List of Figures

Chapter No.	Table No.	Title	Page No.
<b>2.</b>		<b>Traffic Surveys and Analysis</b>	
	2.1	Traffic Survey Locations	
	2.2	Daily Variation of Traffic on Purna Road	
	2.3	Daily Variation of Traffic on Malegaon Road	
	2.4	Daily Variation of Traffic on Latur Road	
	2.5	Daily Variation of Traffic at S.P Office on Necklace Road	
	2.6	Daily Variation of Traffic at Hotel Bageecha on NH-222	
	2.7	Daily Variation of Traffic at Tyre Board on Degloor Road	
	2.8	Traffic Composition at Mutha Chowk	
	2.9	Traffic Composition at Milk Dairy Chowk	
	2.10	Hourly Variation of Pedestrian Flow at Gurudwara Gate No. 1	
	2.11	Hourly Variation of Pedestrian Flow at Dena Bank Junction	
	2.12	Hourly Variation of Pedestrian Flow at Ambedkar Junction	
	2.13	Peak Hour Traffic Volume on Important Roads of Nanded City (2006)	
<b>3.</b>		<b>Traffic Forecast</b>	
	3.1	Forecasted Peak Hour Traffic Volume on Important Roads of Nanded City (2026)	



---

## List of Annexures

Chapter No.	Table No.	Title	Page No.
<b>2.</b>		<b>Traffic Surveys and Analysis</b>	
	2.1	Hourly Traffic Volume Details	
	2.2	Peak Hour Traffic Flow Diagrams for all Junctions	
<b>3.</b>		<b>Traffic Forecast</b>	
	3.1	Base Year Traffic (2006) for Design of Pavements	