1.2.2

Detail of Quantity for

Interchange(IC) & Junction(JCT)

(INTERCHANGE & JUNCTION)

Tab.A.1.12.1 Total Length

PART1(SOUTHERN HIGHWAY)

(1)INTERCHANGE AT ROAD B84

	TOTAL LENGTH = 999.0 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	0	+	0.0	~ NO.	16 + 5.0	325.0	
B-RAMP	NO.	0	+	0.0	~ NO.	16 + 6.0	326.0	
C-RAMP	NO.	0	+	0.0	~ NO.	8 + 13.0	173.0	
D-RAMP	NO.	0	+	0.0	~ NO.	8 + 15.0	175.0	

(2)INTERCHANGE AT ROAD A8

	TOTAL LENGTH = 965.0 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	0	+	0.0	~ NO.	12 + 17.0	257.0	
B-RAMP	NO.	0	+	0.0	~ NO.	13 + 5.0	265.0	
C-RAMP	NO.	0	+	0.0	~ NO.	11 + 8.0	228.0	
D-RAMP	NO.	0	+	0.0	~ NO.	10 + 15.0	215.0	

PART2(OUTER CIRCULAR HIGHWAY)

(3)INTERCHANGE AT ROAD A1

	TOTAL LENGTH = 1,356.0 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	0	+	0.0	~ NO.	19 + 16.0	396.0	
B-RAMP	NO.	0	+	0.0	~ NO.	17 + 5.0	345.0	
C-RAMP	NO.	0	+	0.0	~ NO.	17 + 10.0	350.0	
D-RAMP	NO.	0	+	0.0	~ NO.	13 + 5.0	265.0	

(4)INTERCHANGE AT ROAD B214

	TOTAL LENGTH = 287.0 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	0	+	0.0	~ NO.	7 + 7.0	147.0	
B-RAMP	NO.	0	+	0.0	~ NO.	7 + 0.0	140.0	

(5)INTERCHANGE AT ROAD A110

	TOTAL LENGTH = 403.0 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
C-RAMP	NO.	0	+	0.0	~ NO.	10 + 10.0	210.0	
D-RAMP	NO.	0	+	0.0	~ NO.	9 + 13.0	193.0	

(6)INTERCHANGE AT ROAD A4

	TOTAL LENGTH = 1,095.0 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	0	+	0.0	~ NO.	4 + 10.0	410.0	
B-RAMP	NO.	2	+	25.0	~ NO.	3 + 90.0	165.0	
C-RAMP	NO.	0	+	0.0	~ NO.	3 + 60.0	360.0	
D-RAMP	NO.	1	+	40.0	~ NO.	3 + 0.0	160.0	

(INTERCHANGE & JUNCTION)
Tab.A.1.12.2 Total Length

PART3(OUTER CIRCULAR HIGHWAY)

(7)JUNCTION AT COLOMBO KATUNAYAKE EXPRESSWAY-2

	TOTAL LENGTH = 1,222.3 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	23 +	0.0 ~	NO.	29 +	4.0	124.0	
B-RAMP	NO.	4 +	8.0 ~	NO.	16 +	0.0	232.0	
C-RAMP	NO.	0 +	-25.3 ~	NO.	28 +	16.0	601.3	
D-RAMP	NO.	4 +	8.0 ~	NO.	17 +	13.0	265.0	

(8)INTERCHANGE AT ROAD A3

	TOTAL LENGTH = 782.0 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	0 +	0.0 ~	NO.	12 +	0.0	240.0	
B-RAMP	NO.	0 +	0.0 ~	NO.	10 +	8.0	208.0	
C-RAMP	NO.	0 +	0.0 ~	NO.	16 +	14.0	334.0	
D-RAMP	NO.	0 +	0.0 ~	NO.	0 +	0.0	0.0	
E-RAMP	NO.	0 +	0.0 ~	NO.	0 +	0.0	0.0	

PART4(OUTER CIRCULAR HIGHWAY)

(9)JUNCTION AT SOUTHERN HIGHWAY

	TOTAL LENGTH = 2,198.0 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	7 +	13.0 ~	NO.	37 +	15.0	602.0	
B-RAMP	NO.	12 +	5.0 ~	NO.	24 +	0.0	235.0	
C-RAMP	NO.	0 +	0.0 ~	NO.	42 +	8.0	848.0	
D-RAMP	NO.	0 +	0.0 ~	NO.	25 +	13.0	513.0	

COLOMBO KATUNAYAKE EXPRESSWAY PORTION

(*)JUNCTION AT COLOMBO KATUNAYAKE EXPRESSWAY-1

	TOTAL LENGTH = 1,165.7 (m)							
	SECTION(NOSE)						LENGTH(m)	REMARKS
A-RAMP	NO.	20 +	14.0 ~	NO.	29 +	5.0	171.0	
B-RAMP	NO.	3 +	15.0 ~	NO.	15 +	8.0	233.0	
C-RAMP	NO.	0 +	25.3 ~	NO.	26 +	15.0	509.7	
D-RAMP	NO.	3 +	15.0 ~	NO.	16 +	7.0	252.0	
E-RAMP	NO.	0 +	0.0 ~	NO.	0 +	0.0	0.0	

(INTERCHANGE & JUNCTION)

Tab.A.1.13.1 Quantities of Earth Works

(1)INTERCHANGE AT ROAD B84

<EMBANKMENT>

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE.H (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO. 0 + 0.0 ~ NO. 16 + 5.0	325.0	8.75	4.0		11,375.0	0.9	12,638.9
B-RAMP	NO. 0 + 0.0 ~ NO. 16 + 6.0	326.0	8.75	4.0		11,410.0	0.9	12,677.8
C-RAMP	NO. 0 + 0.0 ~ NO. 8 + 13.0	173.0	8.75	2.0		3,027.5	0.9	3,363.9
D-RAMP	NO. 0 + 0.0 ~ NO. 8 + 15.0	175.0	8.75	2.0		3,062.5	0.9	3,402.8
SUB TOTAL								32,083.3
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.95	6.0	26.85	4,430.3	0.9	4,922.5
B-RAMP	ACCELERATION LANE	210.0	8.95	5.5	24.61	5,168.6	0.9	5,742.9
C-RAMP	ACCELERATION LANE	210.0	8.95	4.0	17.90	3,759.0	0.9	4,176.7
D-RAMP	DECELERATION LANE	165.0	8.95	4.0	17.90	2,953.5	0.9	3,281.7
SUB TOTAL								18,123.8
TOTAL							(A)	50,207.1

PAVEMENT PART

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO. 0 + 0.0 ~ NO. 16 + 5.0	325.0	7.00	2,275.0	0.45	1,023.8	0.9	1,137.5
B-RAMP	NO. 0 + 0.0 ~ NO. 16 + 6.0	326.0	7.00	2,282.0	0.45	1,026.9	0.9	1,141.0
C-RAMP	NO. 0 + 0.0 ~ NO. 8 + 13.0	173.0	7.00	1,211.0	0.45	545.0	0.9	605.5
D-RAMP	NO. 0 + 0.0 ~ NO. 8 + 15.0	175.0	7.00	1,225.0	0.45	551.3	0.9	612.5
SUB TOTAL								3,496.5
SPEED CHANGE LANE								
		LENGTH (m)	AVE.WIDTH (m)	AVE.AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	4.10	676.5	0.45	304.4	0.9	338.3
B-RAMP	ACCELERATION LANE	210.0	4.10	861.0	0.45	387.5	0.9	430.5
C-RAMP	ACCELERATION LANE	210.0	4.10	861.0	0.45	387.5	0.9	430.5
D-RAMP	DECELERATION LANE	165.0	4.10	676.5	0.45	304.4	0.9	338.3
SUB TOTAL								1,537.5
TOTAL							(B)	5,034.0

GRAND TOTAL	(m3)
(A)-(B)=	45,173.1

(INTERCHANGE & JUNCTION)

Tab.A.1.13.2 Quantities of Earth Works

(2)INTERCHANGE AT ROAD A8

<EMBANKMENT>

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE H (m)		VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO 0 + 0.0 ~ NO 12 + 17.0	257.0	8.75	4.0		8,995.0	0.9	9,994.4
B-RAMP	NO 0 + 0.0 ~ NO 13 + 5.0	265.0	8.75	4.5		10,434.4	0.9	11,593.8
C-RAMP	NO 0 + 0.0 ~ NO 11 + 8.0	228.0	8.75	3.0		5,985.0	0.9	6,650.0
D-RAMP	NO 0 + 0.0 ~ NO 10 + 15.0	215.0	8.75	3.0		5,643.8	0.9	6,270.8
SUB TOTAL								34,509.0
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.95	8.5	38.04	6,276.2	0.9	6,973.5
B-RAMP	ACCELERATION LANE	210.0	8.95	8.5	38.04	7,987.9	0.9	8,875.4
C-RAMP	ACCELERATION LANE	210.0	8.95	5.0	22.38	4,698.8	0.9	5,220.8
D-RAMP	DECELERATION LANE	165.0	8.95	5.0	22.38	3,691.9	0.9	4,102.1
SUB TOTAL								25,171.9
TOTAL							(A)	59,680.9

PAVEMENT PART

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO 0 + 0.0 ~ NO 12 + 17.0	257.0	7.00	1,799.0	0.45	809.6	0.9	899.5
B-RAMP	NO 0 + 0.0 ~ NO 13 + 5.0	265.0	7.00	1,855.0	0.45	834.8	0.9	927.5
C-RAMP	NO 0 + 0.0 ~ NO 11 + 8.0	228.0	7.00	1,596.0	0.45	718.2	0.9	798.0
D-RAMP	NO 0 + 0.0 ~ NO 10 + 15.0	215.0	7.00	1,505.0	0.45	677.3	0.9	752.5
SUB TOTAL								3,377.5
SPEED CHANGE LANE								
		LENGTH (m)	AVE.WIDTH (m)	AVE. AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	4.10	676.5	0.45	304.4	0.9	338.3
B-RAMP	ACCELERATION LANE	210.0	4.10	861.0	0.45	387.5	0.9	430.5
C-RAMP	ACCELERATION LANE	210.0	4.10	861.0	0.45	387.5	0.9	430.5
D-RAMP	DECELERATION LANE	165.0	4.10	676.5	0.45	304.4	0.9	338.3
SUB TOTAL								1,537.5
TOTAL							(B)	4,915.0

GRAND TOTAL	(m3)
(A)-(B)=	54,765.9

(INTERCHANGE & JUNCTION)
Tab.A.1.13.3 Quantities of Earth Works

(3)INTERCHANGE AT ROAD A1

<EMBANKENT>

BASIC FREWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE H (m)	AVE AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO 0 + 0.0 ~ NO 19 + 16.0	396.0	8.75	5.0		17,325.0	0.9	19,250.0
B-RAMP	NO 0 + 0.0 ~ NO 17 + 5.0	345.0	8.75	5.0		15,093.8	0.9	16,770.8
C-RAMP	NO 0 + 0.0 ~ NO 17 + 10.0	350.0	8.75	5.5		16,843.8	0.9	18,715.3
D-RAMP	NO 0 + 0.0 ~ NO 13 + 5.0	265.0	8.75	5.5		12,753.1	0.9	14,170.1
SUB TOTAL								68,906.3
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.95	7.0	31.33	5,168.6	0.9	5,742.9
B-RAMP	ACCELERATION LANE	210.0	8.95	7.0	31.33	6,578.3	0.9	7,309.2
C-RAMP	ACCELERATION LANE	210.0	8.95	11.0	49.23	10,337.3	0.9	11,485.8
D-RAMP	DECELERATION LANE	165.0	8.95	11.0	49.23	8,122.1	0.9	9,024.6
SUB TOTAL								33,562.5
TOTAL							(A)	102,468.8

PAVEMENT PART

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO 0 + 0.0 ~ NO 19 + 16.0	396.0	7.00	2,772.0	0.45	1,247.4	0.9	1,386.0
B-RAMP	NO 0 + 0.0 ~ NO 17 + 5.0	345.0	7.00	2,415.0	0.45	1,086.8	0.9	1,207.5
C-RAMP	NO 0 + 0.0 ~ NO 17 + 10.0	350.0	7.00	2,450.0	0.45	1,102.5	0.9	1,225.0
D-RAMP	NO 0 + 0.0 ~ NO 13 + 5.0	265.0	7.00	1,855.0	0.45	834.8	0.9	927.5
SUB TOTAL								4,746.0
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	4.10	676.5	0.45	304.4	0.9	338.3
B-RAMP	ACCELERATION LANE	210.0	4.10	861.0	0.45	387.5	0.9	430.5
C-RAMP	ACCELERATION LANE	210.0	4.10	861.0	0.45	387.5	0.9	430.5
D-RAMP	DECELERATION LANE	165.0	4.10	676.5	0.45	304.4	0.9	338.3
SUB TOTAL								1,537.5
TOTAL							(B)	6,283.5

GRAND TOTAL	(m^3)
(A)-(B)=	96,185.3

(INTERCHANGE & JUNCTION)
Tab.A.1.13.4 Quantities of Earth Works

(4)INTERCHANGE AT ROAD B214

<EMBANKMENT>

BASIC FREEWAY SEGMENT

	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE H (m)		VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO. 0 + 0.0 ~ NO. 7 + 7.0	147.0	8.75	4.0		5,145.0	0.9	5,716.7
B-RAMP	NO. 0 + 0.0 ~ NO. 7 + 0.0	140.0	8.75	4.0		4,900.0	0.9	5,444.4
SUB TOTAL								11,161.1

SPEED CHANGE LANE

		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.95	7.5	33.56	5,537.8	0.9	6,153.1
B-RAMP	ACCELERATION LANE	210.0	8.95	7.5	33.56	7,048.1	0.9	7,831.3
SUB TOTAL								13,984.4
TOTAL							(A)	25,145.5

PAVEMENT PART

BASIC FREEWAY SEGMENT

	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO. 0 + 0.0 ~ NO. 7 + 7.0	147.0	7.00	1,029.0	0.45	463.1	0.9	514.5
B-RAMP	NO. 0 + 0.0 ~ NO. 7 + 0.0	140.0	7.00	980.0	0.45	441.0	0.9	490.0
SUB TOTAL								1,004.5

SPEED CHANGE LANE

		LENGTH (m)	WIDTH(NOSE) (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	4.10	676.5	0.45	304.4	0.9	338.3
B-RAMP	ACCELERATION LANE	210.0	4.10	861.0	0.45	387.5	0.9	430.5
SUB TOTAL								768.8
TOTAL							(B)	1,773.3

GRAND TOTAL	(m^3)
(A)-(B)=	23,372.2

(INTERCHANGE & JUNCTION)
Tab.A.1.13.5 Quantities of Earth Works

(5)INTERCHANGE AT ROAD A110

<EMBANKMENT>

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE H (m)		VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
C-RAMP	NO 0 + 0.0 ~ NO 10 + 10.0	210.0	8.75	2.0		3,675.0	0.9	4,083.3
D-RAMP	NO 0 + 0.0 ~ NO 9 + 13.0	193.0	8.75	2.0		3,377.5	0.9	3,752.8
SUB TOTAL								7,836.1
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
C-RAMP	ACCELERATION LANE	210.0	8.95	6.0	26.85	5,638.5	0.9	6,265.0
D-RAMP	DECELERATION LANE	165.0	8.95	5.0	22.38	3,691.9	0.9	4,102.1
SUB TOTAL								10,367.1
TOTAL							(A)	18,203.2

PAVEMENT PART

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	NO 0 + 0.0 ~ NO 10 + 10.0	210.0	7.00	1,470.0	0.45	661.5	0.9	735.0
B-RAMP	NO 0 + 0.0 ~ NO 9 + 13.0	193.0	7.00	1,351.0	0.45	608.0	0.9	675.5
SUB TOTAL								1,410.5
SPEED CHANGE LANE								
		LENGTH (m)	AVE H (m)	AVE AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	ACCELERATION LANE	210.0	4.10	861.0	0.45	387.5	0.9	430.5
B-RAMP	DECELERATION LANE	165.0	4.10	676.5	0.45	304.4	0.9	338.3
SUB TOTAL								768.8
TOTAL							(B)	2,179.3

GRAND TOTAL	(m^3)
(A)-(B)=	16,023.9

(INTERCHANGE & JUNCTION)
Tab.A.1.13.6 Quantities of Earth Works

(6)INTERCHANGE AT ROAD A4

<EMBANKMENT>

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE.H (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
1 LANE IN 1 DIRECTION								
A-RAMP	NO. 2 + 25.0 ~ NO. 4 + 10.0	185.0	8.50	8.0	180.00	37,000.0	0.9	33,300.0
B-RAMP	NO. 2 + 25.0 ~ NO. 3 + 90.0	165.0	8.50	8.0	180.00	33,000.0	0.9	29,700.0
C-RAMP	NO. 1 + 40.0 ~ NO. 3 + 60.0	220.0	8.50	6.0	115.00	28,111.1	0.9	25,300.0
D-RAMP	NO. 1 + 40.0 ~ NO. 3 + 0.0	160.0	8.50	6.0	115.00	20,444.4	0.9	18,400.0
2 LANE IN 2 DIRECTION WITH SEPARATION								
A-RAMP	NO. 0 + 0.0 ~ NO. 2 + 25.0	225.0	16.00	4.0	90.00	22,500.0	0.9	20,250.0
C-RAMP	NO. 0 + 0.0 ~ NO. 1 + 40.0	140.0	16.00	4.0	90.00	14,000.0	0.9	12,600.0
4 LANE IN 2 DIRECTION WITH SEPARATION								
SUB TOTAL								139,550.0

SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.95	13.0	116.35	21,340.0	0.9	19,206.0
B-RAMP	ACCELERATION LANE	210.0	8.95	12.0	107.40	25,060.0	0.9	22,554.0
C-RAMP	DECELERATION LANE	165.0	8.95	7.0	62.65	11,476.7	0.9	10,329.0
D-RAMP	ACCELERATION LANE	210.0	8.95	8.0	71.60	16,706.7	0.9	15,036.0
SUB TOTAL								67,125.0
TOTAL							(A)	213,413.8

PAVEMENT PART

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
1 LANE IN 1 DIRECTION								
A-RAMP	NO. 2 + 25.0 ~ NO. 4 + 10.0	185.0	7.00	1,295.0	0.45	582.8	0.9	647.5
B-RAMP	NO. 2 + 25.0 ~ NO. 3 + 90.0	165.0	7.00	1,155.0	0.45	519.8	0.9	577.5
C-RAMP	NO. 1 + 40.0 ~ NO. 3 + 60.0	220.0	7.00	1,540.0	0.45	693.0	0.9	770.0
D-RAMP	NO. 1 + 40.0 ~ NO. 3 + 0.0	160.0	7.00	1,120.0	0.45	504.0	0.9	560.0
2 LANE IN 2 DIRECTION WITH SEPARATION								
A-RAMP	NO. 0 + 0.0 ~ NO. 2 + 25.0	225.0	14.50	3,262.5	0.45	1,468.1	0.9	1,631.3
C-RAMP	NO. 0 + 0.0 ~ NO. 1 + 40.0	140.0	14.50	2,030.0	0.45	913.5	0.9	1,015.0
TOLL GATE ~ CONNECTING POINT (B.D)								
SUB TOTAL								5,201.3

SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
B-RAMP	ACCELERATION LANE	210.0	8.20	861.0	0.45	387.5	0.9	430.5
C-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
D-RAMP	ACCELERATION LANE	210.0	8.20	861.0	0.45	387.5	0.9	430.5
SUB TOTAL								1,537.5
TOTAL							(B)	6,738.8

GRAND TOTAL	(m^3)
(A)-(B)=	206,675.0

(INTERCHANGE & JUNCTION)

Tab.A.1.13.7 Quantities of Earth Works

(7)JUNCTION AT COLOMBO KATUNAYAKE EXPRESSWAY-2

<EMBANKMENT>

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE.H (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
1 LANE IN 1 DIRECTION								
A-RAMP	NO. 20 + 14.0 ~ NO. 29 + 5.0	171.0	8.50	9.2	230.55	39,424.4	0.9	43,804.9
B-RAMP	NO. 3 + 15.0 ~ NO. 15 + 8.0	233.0	8.50	7.8	175.81	40,964.2	0.9	45,515.8
C-RAMP	NO. 20 + 14.0 ~ NO. 26 + 15.0	121.0	8.50	9.4	238.95	28,912.7	0.9	32,125.2
D-RAMP	NO. 3 + 15.0 ~ NO. 16 + 7.0	252.0	8.50	9.3	234.73	59,152.5	0.9	65,725.0
2 LANE IN 2 DIRECTION WITH SEPARATION								
C-RAMP	NO. 3 + 15.0 ~ NO. 20 + 14.0	339.0	16.00	5.3	135.36	45,887.7	0.9	50,986.4
TOLL GATE ~ CONNECTING POINT (B,D)								
D-RAMP	NO. 0 + 25.3 ~ NO. 3 + 15.0	49.7	27.00	4.5	157.95	7,850.1	0.9	8,722.4
SUB TOTAL								246,879.5
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.95	9.0	40.28	6,645.4	0.9	7,383.8
B-RAMP	ACCELERATION LANE	210.0	8.95	9.0	40.28	8,457.8	0.9	9,397.5
C-RAMP	ACCELERATION LANE	210.0	8.95	13.0	58.18	12,216.8	0.9	13,574.2
D-RAMP	DECELERATION LANE	165.0	8.95	8.0	35.80	5,907.0	0.9	6,563.3
SUB TOTAL								36,918.8
TOTAL							(A)	283,798.3

PAVEMENT PART

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
1 LANE IN 1 DIRECTION								
A-RAMP	NO. 20 + 14.0 ~ NO. 29 + 5.0	171.0	7.00	1,197.0	0.45	538.7	0.9	598.5
B-RAMP	NO. 3 + 15.0 ~ NO. 15 + 8.0	233.0	7.00	1,631.0	0.45	734.0	0.9	815.5
C-RAMP	NO. 20 + 14.0 ~ NO. 26 + 15.0	121.0	7.00	847.0	0.45	381.2	0.9	423.5
D-RAMP	NO. 3 + 15.0 ~ NO. 16 + 7.0	252.0	7.00	1,764.0	0.45	793.8	0.9	882.0
2 LANE IN 2 DIRECTION WITH SEPARATION								
C-RAMP	NO. 3 + 15.0 ~ NO. 20 + 14.0	339.0	14.50	4,915.5	0.45	2,212.0	0.9	2,457.8
TOLL GATE ~ CONNECTING POINT (B,D)								
C-RAMP	NO. 0 + 25.3 ~ NO. 3 + 15.0	49.7	25.50	1,267.4	0.45	570.3	0.9	633.7
SUB TOTAL								5,810.9
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
B-RAMP	ACCELERATION LANE	210.0	8.20	861.0	0.45	387.5	0.9	430.5
C-RAMP	ACCELERATION LANE	210.0	8.20	861.0	0.45	387.5	0.9	430.5
D-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
SUB TOTAL								1,537.5
TOTAL							(B)	7,348.4

GRAND TOTAL	(m^3)
(A)-(B)=	276,449.9

(INTERCHANGE & JUNCTION)
Tab.A.1.13.8 Quantities of Earth Works

(8)INTERCHANGE AT ROAD A3

<EMBANKMENT>

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE.H (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
DIAMOND								
A-RAMP	NO. 0 + 0.0 ~ NO. 12 + 0.0	240.0	8.75	4.0	35.00	8,400.0	0.9	9,333.3
B-RAMP	NO. 0 + 0.0 ~ NO. 10 + 8.0	208.0	8.75	4.0	35.00	7,280.0	0.9	8,088.9
ROOP								
C-RAMP	NO. 0 + 0.0 ~ NO. 16 + 14.0	334.0	8.50	4.0	62.80	20,975.2	0.9	23,305.8
SUB TOTAL								40,728.0
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
DIAMOND								
A-RAMP	ACCELERATION LANE	210.0	8.95	8.0	35.80	7,518.0	0.9	8,353.3
B-RAMP	DECELERATION LANE	165.0	8.95	8.0	35.80	5,907.0	0.9	6,563.3
ROOP								
C-RAMP	DECELERATION LANE	165.0	8.95	8.0	35.80	5,907.0	0.9	6,563.3
SUB TOTAL								21,480.0
TOTAL							(A)	62,208.0

PAVEMENT PART

BASIC FREEWAY SEGMENT								
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
DIAMOND								
A-RAMP	NO. 0 + 0.0 ~ NO. 12 + 0.0	240.0	7.00	1,680.0	0.45	756.0	0.9	840.0
B-RAMP	NO. 0 + 0.0 ~ NO. 10 + 8.0	208.0	7.00	1,456.0	0.45	655.2	0.9	728.0
ROOP								
C-RAMP	NO. 0 + 0.0 ~ NO. 16 + 14.0	334.0	7.00	2,338.0	0.45	1,052.1	0.9	1,169.0
SUB TOTAL								2,737.0
SPEED CHANGE LANE								
		LENGTH (m)	WIDTH(NOSE) (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
DIAMOND								
A-RAMP	ACCELERATION LANE	210.0	8.20	861.0	0.45	387.5	0.9	430.5
B-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
ROOP								
C-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
SUB TOTAL								1,107.0
TOTAL							(B)	3,844.0

GRAND TOTAL	(m3)
(A)-(B)=	58,364.0

(INTERCHANGE & JUNCTION)

Tab.A.1.13.9 Quantities of Earth Works

(9)JUNCTION AT SOUTHERN HIGHWAY

<EMBANKMENT>

BASIC FREEWAY SEGMENT

	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE.H (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
1 LANE IN 1 DIRECTION								
A-RAMP	NO. 7 + 13.0 ~ NO. 19 + 18.0	245.0	8.50	4.5	74.70	18,301.5	0.9	20,335.0
A-RAMP	NO. 22 + 5.0 ~ NO. 37 + 15.0	310.0	8.50	4.5	74.70	23,157.0	0.9	25,730.0
B-RAMP	NO. 12 + 5.0 ~ NO. 24 + 0.0	235.0	8.50	3.5	51.80	12,173.0	0.9	13,525.6
C-RAMP	NO. 12 + 5.0 ~ NO. 19 + 16.0	151.0	8.50	6.5	131.30	19,826.3	0.9	22,029.2
C-RAMP	NO. 24 + 6.0 ~ NO. 42 + 8.0	362.0	8.50	4.0	62.80	22,733.6	0.9	25,259.6
D-RAMP	NO. 7 + 13.0 ~ NO. 25 + 13.0	360.0	8.50	1.0	10.30	3,708.0	0.9	4,120.0
1 LANE IN 2 DIRECTION WITH SEPARATION								
C-RAMP	NO. 0 + 0.0 ~ NO. 12 + 5.0	245.0	12.25	3.5	64.93	15,906.6	0.9	17,674.0
D-RAMP	NO. 0 + 0.0 ~ NO. 7 + 13.0	153.0	12.25	2.0	31.70	4,850.1	0.9	5,389.0
SUB TOTAL								134,062.4

SPEED CHANGE LANE

		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.95	2.0	8.95	1,476.8	0.9	1,640.8
B-RAMP	ACCELERATION LANE	210.0	8.95	2.0	8.95	1,879.5	0.9	2,088.3
SUB TOTAL								3,729.2
TOTAL							(A)	137,791.5

PAVEMENT PART

BASIC FREEWAY SEGMENT

	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
1 LANE IN 1 DIRECTION								
A-RAMP	NO. 7 + 13.0 ~ NO. 19 + 18.0	245.0	7.00	1,715.0	0.45	771.8	0.9	857.5
A-RAMP	NO. 22 + 5.0 ~ NO. 37 + 15.0	310.0	7.00	2,170.0	0.45	976.5	0.9	1,085.0
B-RAMP	NO. 12 + 5.0 ~ NO. 24 + 0.0	235.0	7.00	1,645.0	0.45	740.3	0.9	822.5
C-RAMP	NO. 12 + 5.0 ~ NO. 19 + 16.0	151.0	7.00	1,057.0	0.45	475.7	0.9	528.5
C-RAMP	NO. 24 + 6.0 ~ NO. 42 + 8.0	362.0	7.00	2,534.0	0.45	1,140.3	0.9	1,267.0
D-RAMP	NO. 7 + 13.0 ~ NO. 25 + 13.0	360.0	7.00	2,520.0	0.45	1,134.0	0.9	1,260.0
2 LANE IN 1 DIRECTION								
C-RAMP	NO. 0 + 0.0 ~ NO. 12 + 5.0	245.0	10.75	2,633.8	0.45	1,185.2	0.9	1,316.9
C-RAMP	NO. 0 + 0.0 ~ NO. 7 + 13.0	153.0	10.75	1,644.8	0.45	740.1	0.9	822.4
SUB TOTAL								7,959.8

SPEED CHANGE LANE

		LENGTH (m)	WIDTH(NOSE) (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
B-RAMP	ACCELERATION LANE	210.0	8.20	861.0	0.45	387.5	0.9	430.5
SUB TOTAL								768.8
TOTAL							(B)	8,728.5

GRAND TOTAL	(m3)
(A)-(B)=	129,063.0

(INTERCHANGE & JUNCTION)

Tab.A.1.13.10 Quantities of Earth Works

(*)JUNCTION AT COLOMBO KATUNAYAKE EXPRESSWAY-1

<EMBANKMENT>

BASIC FREEWAY SEGMENT

	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AVE.H (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
1 LANE IN 1 DIRECTION								
A-RAMP	NO. 23 + 0.0 ~ NO. 29 + 4.0	124.0	8.50	3.0	41.70	5,170.8	0.9	5,745.3
B-RAMP	NO. 4 + 8.0 ~ NO. 16 + 0.0	232.0	8.50	4.4	72.25	16,761.5	0.9	18,623.9
C-RAMP	NO. 23 + 0.0 ~ NO. 28 + 16.0	76.0	8.50	3.0	41.70	3,169.2	0.9	3,521.3
D-RAMP	NO. 4 + 8.0 ~ NO. 17 + 13.0	265.0	8.50	4.3	69.83	18,505.5	0.9	20,561.6
2 LANE IN 2 DIRECTION WITH SEPARATION								
C-RAMP	NO. 4 + 8.0 ~ NO. 10 + 13.0	125.0	16.00	7.8	234.31	29,289.0	0.9	32,543.3
C-RAMP	NO. 12 + 13.0 ~ NO. 23 + 0.0	207.0	16.00	6.3	172.24	35,654.1	0.9	39,615.7
TOLL GATE ~ CONNECTING POINT (B,D)								
C-RAMP	NO. 0 + -25.3 ~ NO. 4 + 8.0	113.3	27.00	4.3	149.38	16,925.0	0.9	18,805.5
TOLL GATE		80.0	50.00	1.5	75.00	6,000.0	0.9	6,666.7
SUB TOTAL								146,083.4

SPEED CHANGE LANE

		LENGTH (m)	WIDTH(NOSE) (m)	HEIGHT (m)	AVE.AREA (m2)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.95	2.0	8.95	1,476.8	0.9	1,640.8
B-RAMP	ACCELERATION LANE	210.0	8.95	2.0	8.95	1,879.5	0.9	2,088.3
C-RAMP	ACCELERATION LANE	210.0	8.95	2.0	8.95	1,879.5	0.9	2,088.3
D-RAMP	DECELERATION LANE	165.0	8.95	1.5	6.71	1,107.6	0.9	1,230.6
SUB TOTAL								7,048.1
TOTAL							(A)	153,131.6

PAVEMENT PART

BASIC FREEWAY SEGMENT

	SECTION(NOSE)	LENGTH (m)	WIDTH (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
1 LANE IN 1 DIRECTION								
A-RAMP	NO. 23 + 0.0 ~ NO. 29 + 4.0	124.0	7.00	868.0	0.45	390.6	0.9	434.0
B-RAMP	NO. 4 + 8.0 ~ NO. 16 + 0.0	232.0	7.00	1,624.0	0.45	730.8	0.9	812.0
C-RAMP	NO. 23 + 0.0 ~ NO. 28 + 16.0	116.0	7.00	812.0	0.45	365.4	0.9	406.0
D-RAMP	NO. 4 + 8.0 ~ NO. 17 + 13.0	265.0	7.00	1,855.0	0.45	834.8	0.9	927.5
2 LANE IN 2 DIRECTION WITH SEPARATION								
C-RAMP	NO. 4 + 8.0 ~ NO. 10 + 13.0	125.0	14.50	1,812.5	0.45	815.6	0.9	906.3
C-RAMP	NO. 12 + 13.0 ~ NO. 23 + 0.0	207.0	14.50	3,001.5	0.45	1,350.7	0.9	1,500.8
TOLL GATE ~ CONNECTING POINT (B,D)								
C-RAMP	NO. 0 + -25.3 ~ NO. 4 + 8.0	113.3	25.50	2,889.2	0.45	1,300.1	0.9	1,444.6
TOLL GATE		80.0	50.00	4,000.0	0.45	1,800.0	0.9	2,000.0
SUB TOTAL								8,431.1

SPEED CHANGE LANE

		LENGTH (m)	WIDTH(NOSE) (m)	AREA (m2)	THICKNESS (m)	VOLUME (m3)	COEFFICIENT	COVERTED VOLUME (m3)
A-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
B-RAMP	ACCELERATION LANE	210.0	8.20	861.0	0.45	387.5	0.9	430.5
C-RAMP	ACCELERATION LANE	210.0	8.20	861.0	0.45	387.5	0.9	430.5
D-RAMP	DECELERATION LANE	165.0	8.20	676.5	0.45	304.4	0.9	338.3
SUB TOTAL								1,537.5
TOTAL							(B)	9,968.6

GRAND TOTAL	(m3)
(A)-(B)=	143,163.0

(INTERCHANGE & JUNCTION)

Tab.A.1.14.1 Quantities of Slope Protection

PART2(OUTER CIRCULAR HIGHWAY)

(6)INTERCHANGE AT ROAD A4

<EMBANKMENT>

BASIC FREEWAY SEGMENT				
	SECTION(NOSE)	LENGTH (m)	AVE.H (m)	AVE.L (SLOPE) (m)	AREA (m2)
1 LANE IN 1 DIRECTION					
A1-RAMP	NO. 0 + 0.0 ~ NO. 2 + 25.0	225.0	4.0	8.2	3,706.5
A2-RAMP	NO. 2 + 25.0 ~ NO. 4 + 10.0	185.0	8.0	16.5	3,047.6
B-RAMP	NO. 2 + 25.0 ~ NO. 3 + 90.0	165.0	8.0	16.5	2,718.1
C1-RAMP	NO. 0 + 0.0 ~ NO. 1 + 40.0	140.0	4.0	8.2	1,153.2
C2-RAMP	NO. 1 + 40.0 ~ NO. 3 + 60.0	220.0	6.0	12.4	2,718.1
D-RAMP	NO. 1 + 40.0 ~ NO. 3 + 0.0	160.0	6.0	12.4	1,976.8
2 LANE IN 2 DIRECTION WITH SEPARATION					
D-RAMP	NO. 0 + 0.0 ~ NO. 0 + 0.0	0.0	0.0	0.0	0.0
4 LANE IN 2 DIRECTION WITH SEPARATION					
D-RAMP	NO. 0 + 0.0 ~ NO. 0 + 0.0	0.0	0.0	0.0	0.0
SUB TOTAL					15,320.3
SPEED CHANGE LANE					
TOTAL					**15,320.3**

(INTERCHANGE & JUNCTION)

Tab.A.1.14.2 Quantities of Slope Protection

PART3(OUTER CIRCULAR HIGHWAY)

(7)JUNCTION AT COLOMBO KATUNAYAKE EXPRESSWAY-2

<EMBANKMENT>

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	AVE.H (m)	AVE.L (SLOPE) (m)	AREA (m2)
1 LANE IN 1 DIRECTION					
A-RAMP	NO. 23 + 0.0 ~ NO. 29 + 4.0	124.0	3.0	6.2	1,532.0
B-RAMP	NO. 4 + 8.0 ~ NO. 16 + 0.0	232.0	4.4	9.1	4,203.9
C-RAMP	NO. 23 + 0.0 ~ NO. 28 + 16.0	116.0	3.0	6.2	1,433.2
D-RAMP	NO. 4 + 8.0 ~ NO. 17 + 13.0	265.0	4.3	8.9	4,692.7
2 LANE IN 2 DIRECTION WITH SEPARATION					
C-RAMP	NO. 4 + 8.0 ~ NO. 10 + 13.0	125.0	7.8	16.1	4,015.3
C-RAMP	NO. 12 + 13.0 ~ NO. 23 + 0.0	207.0	6.3	13.0	5,370.6
TOLL GATE ~ CONNECTING POINT (B.D)					
C-RAMP	NO. 0 + -25.3 ~ NO. 4 + 8.0	113.3	4.3	8.9	2,006.4
SUB TOTAL					23,254.1
SPEED CHANGE LANE					
TOTAL					**23,254.1**

(8)INTERCHANGE AT ROAD A3

<EMBANKMENT>

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	AVE.H (m)	AVE.L (SLOPE) (m)	AREA (m2)
ROOP					
C-RAMP	NO. 0 + 0.0 ~ NO. 16 + 14.0	334.0	5.0	10.3	6,877.5
SUB TOTAL					6,877.5
SPEED CHANGE LANE					
TOTAL					**6,877.5**

(INTERCHANGE & JUNCTION)
Tab.A.1.14.3 Quantities of Slope Protection

PART4(OUTER CIRCULAR HIGHWAY)

(9)JUNCTION AT SOUTHERN HIGHWAY

<EMBANKMENT>

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	AVE.H (m)	AVE.L (SLOPE) (m)	AREA (m2)
1 LANE IN 1 DIRECTION					
A-RAMP	NO. 7 + 13.0 ~ NO. 19 + 18.0	245.0	4.5	9.3	4,540.4
A-RAMP	NO. 22 + 5.0 ~ NO. 37 + 15.0	310.0	4.5	9.3	5,745.0
B-RAMP	NO. 12 + 5.0 ~ NO. 24 + 0.0	235.0	3.5	7.2	3,387.3
C-RAMP	NO. 12 + 5.0 ~ NO. 19 + 16.0	151.0	6.5	13.4	4,042.1
C-RAMP	NO. 24 + 6.0 ~ NO. 42 + 8.0	362.0	4.0	8.2	5,963.2
D-RAMP	NO. 7 + 13.0 ~ NO. 25 + 13.0	360.0	1.0	2.1	1,482.6
2 LANE IN 2 DIRECTION WITH SEPARATION					
D-RAMP	NO. 0 + 0.0 ~ NO. 12 + 5.0	245.0	3.5	7.2	3,531.4
D-RAMP	NO. 0 + 0.0 ~ NO. 7 + 13.0	153.0	2.0	4.1	1,260.2
SUB TOTAL					29,952.0
SPEED CHANGE LANE					
TOTAL					**29,952.0**

COLOMBO KATUNAYAKE EXPRESSWAY PORTION

(*)JUNCTION AT COLOMBO KATUNAYAKE EXPRESSWAY-1

<EMBANKMENT>

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	AVE.H (m)	E.L.(SLO (m)	AREA (m2)
1 LANE IN 1 DIRECTION					
A-RAMP	NO. 20 + 14.0 ~ NO. 29 + 5.0	171.0	9.2	18.9	6,478.8
B-RAMP	NO. 3 + 15.0 ~ NO. 15 + 8.0	233.0	7.8	16.1	7,484.5
C-RAMP	NO. 20 + 14.0 ~ NO. 26 + 15.0	121.0	9.4	19.4	4,684.1
D-RAMP	NO. 3 + 15.0 ~ NO. 16 + 7.0	252.0	9.3	19.1	9,651.5
2 LANE IN 2 DIRECTION WITH SEPARATION					
C-RAMP	NO. 3 + 15.0 ~ NO. 20 + 14.0	339.0	5.3	10.9	7,399.3
TOLL GATE ~ CONNECTING POINT (B,D)					
C-RAMP	NO. 0 + 25.3 ~ NO. 3 + 15.0	49.7	4.5	9.3	921.0
TOLL GATE				refer to C-RAMP	
SUB TOTAL					36,619.3
SPEED CHANGE LANE					
TOTAL					**36,619.3**

(INTERCHANGE & JUNCTION)
Tab.A.1.15 Quantities of Retaining Wall

PART3(OUTER CIRCULAR HIGHWAY)

(8)INTERCHANGE AT ROAD A3

TYPE	STATION						LENGTH m	L-R	AVE.H m
GRAVITY TYPE	NO.	10 +	20 ~	NO.	10 +	80	60.0	R	2.0
	NO.	13 +	0 ~	NO.	13 +	60	60.0	R	2.0
	NO.	+	~	NO.	+				
	NO.	+	~	NO.	+				
	NO.	+	~	NO.	+				
	SUB TOTAL						120.0		
INVERSED T TYPE	NO.	10 +	80 ~	NO.	13 +	0	220.0	R	5.0
	NO.	+	~	NO.	+				
	NO.	+	~	NO.	+				
	NO.	+	~	NO.	+				
	NO.	+	~	NO.	+				
	SUB TOTAL						220.0		
EARTH REINFORCEMENT	NO.	1 +	0 ~	NO.	3 +	0	200.0		5.0
	NO.	+	~	NO.	+				
	NO.	+	~	NO.	+				
	NO.	+	~	NO.	+				
	NO.	+	~	NO.	+				
	SUB TOTAL						200.0		
TOTAL							540.0		

PART4(OUTER CIRCULAR HIGHWAY)

(9)JUNCTION AT SOUTHERN HIGHWAY

								LENGTH m	L-R	AVE.H m
EARTH REINFORCEMENT	C	NO.	24 +	6 ~	NO.	27 +	6	60.0	R	4.0
		NO.	+	~	NO.	+				
		NO.	+	~	NO.	+				
		NO.	+	~	NO.	+				
		NO.	+	~	NO.	+				
		SUB TOTAL						60.0		
TOTAL								60.0		

(INTERCHANGE & JUNCTION)

Tab.A.1.16.1 Quantities of Pavement

PART1(SOUTHERN HIGHWAY)

(1)INTERCHANGE AT ROAD B84

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
A-RAMP	NO. 0 + 0.0 ~ NO. 16 + 5.0	325.0	7.0		2,275.0
B-RAMP	NO. 0 + 0.0 ~ NO. 16 + 6.0	326.0	7.0		2,282.0
C-RAMP	NO. 0 + 0.0 ~ NO. 8 + 13.0	173.0	7.0		1,211.0
D-RAMP	NO. 0 + 0.0 ~ NO. 8 + 15.0	175.0	7.0		1,225.0
SUB TOTAL					6,993.0
SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
A-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
B-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
C-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
D-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					3,075.0
TOTAL					**10,068.0**

(2)INTERCHANGE AT ROAD A8

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
A-RAMP	NO. 0 + 0.0 ~ NO. 12 + 17.0	257.0	7.0		1,799.0
B-RAMP	NO. 0 + 0.0 ~ NO. 13 + 5.0	265.0	7.0		1,855.0
C-RAMP	NO. 0 + 0.0 ~ NO. 11 + 8.0	228.0	7.0		1,596.0
D-RAMP	NO. 0 + 0.0 ~ NO. 10 + 15.0	215.0	7.0		1,505.0
SUB TOTAL					6,755.0
SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
A-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
B-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
C-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
D-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					3,075.0
TOTAL					**9,830.0**

(INTERCHANGE & JUNCTION)

Tab.A.1.16.2 Quantities of Pavement

PART2(OUTER CIRCULAR HIGHWAY)

(3)INTERCHANGE AT ROAD A1

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
A-RAMP	NO. 0 + 0.0 ~ NO. 19 + 16.0	396.0	7.0		2,772.0
B-RAMP	NO. 0 + 0.0 ~ NO. 17 + 5.0	345.0	7.0		2,415.0
C-RAMP	NO. 0 + 0.0 ~ NO. 17 + 10.0	350.0	7.0		2,450.0
D-RAMP	NO. 0 + 0.0 ~ NO. 13 + 5.0	265.0	7.0		1,855.0
SUB TOTAL					9,492.0
SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
A-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
B-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
C-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
D-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					3,075.0
TOTAL					**12,567.0**

(4)INTERCHANGE AT ROAD B214

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
A-RAMP	NO. 0 + 0.0 ~ NO. 7 + 7.0	147.0	7.0		1,029.0
B-RAMP	NO. 0 + 0.0 ~ NO. 7 + 0.0	140.0	7.0		980.0
SUB TOTAL					2,009.0
SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
A-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
B-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
SUB TOTAL					1,537.5
TOTAL					**3,546.5**

(INTERCHANGE & JUNCTION)

Tab.A.1.16.3 Quantities of Pavement

(5)INTERCHANGE AT ROAD A110

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
C-RAMP	NO. 0 + 0.0 ~ NO. 10 + 10.0	210.0	7.0		1,470.0
D-RAMP	NO. 0 + 0.0 ~ NO. 9 + 13.0	193.0	7.0		1,351.0
SUB TOTAL					2,821.0
SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
C-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
D-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					1,537.5
TOTAL					**4,358.5**

(6)INTERCHANGE AT ROAD A4

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
1 LANE IN 1 DIRECTION					
A-RAMP	NO. 2 + 25.0 ~ NO. 4 + 10.0	185.0	7.0		1,295.0
B-RAMP	NO. 2 + 25.0 ~ NO. 3 + 90.0	165.0	7.0		1,155.0
C-RAMP	NO. 1 + 40.0 ~ NO. 3 + 60.0	220.0	7.0		1,540.0
D-RAMP	NO. 1 + 40.0 ~ NO. 3 + 0.0	160.0	7.0		1,120.0
2 LANE IN 2 DIRECTION WITH SEPARATION					
A-RAMP	NO. 0 + 0.0 ~ NO. 2 + 25.0	225.0	14.5		3,262.5
C-RAMP	NO. 0 + 0.0 ~ NO. 1 + 40.0	140.0	14.5		2,030.0
4 LANE IN 2 DIRECTION WITH SEPARATION					
D-RAMP	NO. 0 + 0.0 ~ NO. 0 + 0.0	0.0	0.0		0.0
SUB TOTAL					10,402.5
SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
A-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
B-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
C-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
D-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					3,075.0
TOTAL					**13,477.5**

(INTERCHANGE & JUNCTION)
Tab.A.1.16.4 Quantities of Pavement

PART3(OUTER CIRCULAR HIGHWAY)

(7)JUNCTION AT COLOMBO KATUNAYAKE EXPRESSWAY-2

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
1 LANE IN 1 DIRECTION					
A-RAMP	NO. 20 + 14.0 ~ NO. 29 + 5.0	171.0	7.0		1,197.0
B-RAMP	NO. 3 + 15.0 ~ NO. 15 + 8.0	233.0	7.0		1,631.0
C-RAMP	NO. 20 + 14.0 ~ NO. 26 + 15.0	121.0	7.0		847.0
D-RAMP	NO. 3 + 15.0 ~ NO. 16 + 7.0	252.0	7.0		1,764.0
2 LANE IN 2 DIRECTION WITH SEPARATION					
C-RAMP	NO. 3 + 15.0 ~ NO. 20 + 14.0	339.0	14.5		4,915.5
TOLL GATE ~ CONNECTING POINT (B,D)					
D-RAMP	NO. 0 + 25.3 ~ NO. 3 + 15.0	49.7	25.5		1,267.4
SUB TOTAL					11,621.9

SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
A-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
B-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
C-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
D-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					3,075.0
TOTAL					**14,696.9**

(INTERCHANGE & JUNCTION)

Tab.A.1.16.5 Quantities of Pavement

(8)INTERCHANGE AT ROAD A3

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
DIAMOND					
A-RAMP	NO. 0 + 0.0 ~ NO. 12 + 0.0	240.0	7.0		1,680.0
B-RAMP	NO. 0 + 0.0 ~ NO. 10 + 8.0	208.0	7.0		1,456.0
ROOP					
C-RAMP	NO. 0 + 0.0 ~ NO. 16 + 14.0	334.0	7.0		2,338.0
SUB TOTAL					5,474.0
SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
DIAMOND					
A-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
B-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
ROOP					
C-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					2,214.0
TOTAL					7,688.0

PART4(OUTER CIRCULAR HIGHWAY)

(9)JUNCTION AT SOUTHERN HIGHWAY

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
1 LANE IN 1 DIRECTION					
A-RAMP	NO. 7 + 13.0 ~ NO. 19 + 18.0	245.0	7.0		1,715.0
A-RAMP	NO. 22 + 5.0 ~ NO. 37 + 15.0	310.0	7.0		2,170.0
B-RAMP	NO. 12 + 5.0 ~ NO. 24 + 0.0	235.0	7.0		1,645.0
C-RAMP	NO. 12 + 5.0 ~ NO. 19 + 16.0	151.0	7.0		1,057.0
C-RAMP	NO. 24 + 6.0 ~ NO. 42 + 8.0	362.0	7.0		2,534.0
D-RAMP	NO. 7 + 13.0 ~ NO. 25 + 13.0	360.0	7.0		2,520.0
2 LANE IN 2 DIRECTION WITH SEPARATION					
D-RAMP	NO. 0 + 0.0 ~ NO. 12 + 5.0	245.0	10.8		2,633.8
D-RAMP	NO. 0 + 0.0 ~ NO. 7 + 13.0	153.0	10.8		1,644.8
SUB TOTAL					15,919.6
SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
A-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
B-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
C-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
D-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					3,075.0
TOTAL					18,994.6

(INTERCHANGE & JUNCTION)

Tab.A.1.16.6 Quantities of Pavement

COLOMBO KATUNAYAKE EXPRESSWAY PORTION

(*)JUNCTION AT COLOMBO KATUNAYAKE EXPRESSWAY-1

BASIC FREEWAY SEGMENT					
	SECTION(NOSE)	LENGTH (m)	WIDTH (m)		AREA (m2)
1 LANE IN 1 DIRECTION					
A-RAMP	NO. 23 + 0.0 ~ NO. 29 + 4.0	124.0	7.0		868.0
B-RAMP	NO. 4 + 8.0 ~ NO. 16 + 0.0	232.0	7.0		1,624.0
C-RAMP	NO. 23 + 0.0 ~ NO. 28 + 16.0	116.0	7.0		812.0
D-RAMP	NO. 4 + 8.0 ~ NO. 17 + 13.0	265.0	7.0		1,855.0
2 LANE IN 2 DIRECTION WITH SEPARATION					
C-RAMP	NO. 4 + 8.0 ~ NO. 10 + 13.0	125.0	14.5		1,812.5
C-RAMP	NO. 12 + 13.0 ~ NO. 23 + 0.0	207.0	14.5		3,001.5
TOLL GATE ~ CONNECTING POINT (B.D)					
D-RAMP	NO. 0 + -25.3 ~ NO. 4 + 8.0	113.3	25.5		2,889.2
TOLL GATE		80.0	50.0		4,000.0
SUB TOTAL					16,862.2

SPEED CHANGE LANE					
		LENGTH (m)	WIDTH(NOSE) (m)	AVE.WIDTH (m)	AREA (m2)
A-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
B-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
C-RAMP	ACCELERATION LANE	210.0	8.2	4.1	861.0
D-RAMP	DECELERATION LANE	165.0	8.2	4.1	676.5
SUB TOTAL					3,075.0
TOTAL					19,937.2

Tab.A.1.17 Quantities of Bridge and Viaduct(INTERCHANGE & JUNCTION)

PART	IC & JCT	STATION	TYPE	WIDTH(m) / LENGTH(m)	AREA (m²)	NO. OF SPAN	SUPERSTRUCTURE TYPE	SUPERSTRUCTURE UNIT COST (Rs./m²)	SUPERSTRUCTURE COST (x10^3Rs.)	SUBSTRUCTURE ABUTMENT BODY (x10^3Rs.)	ABUTMENT FOUNDATION TYPE	ABUTMENT FOUNDATION COST	ABUTMENT TOTAL (x10^3Rs.)	SUBSTRUCTURE PIER BODY (x10^3Rs.)	PIER FOUNDATION TYPE	PIER FOUNDATION COST	PIER TOTAL (x10^3Rs.)	CONCRETE BLOCK PITCHING (x10^3Rs.)	SUBSTRUCTURE TOTAL (x10^3Rs.)	TOTAL COST ACTUAL x10^3Rs.	TOTAL COST INCLU. OVERHEAD x10^3Rs.	UNIT COST (/m^2) (Rs./m²)
	CKE1	10 +13.000 12 +13.000	VIADUCT	14.5 / 40.0	580.0	2	PC	33,276	19,300	3,876	Pile Φ600	12,540	16,416	1,620	Pile Φ600	5,700	7,320	3,030	26,766	46,066	52,976	79,424
3	CKE2	-1 +40.000 0 +20.000	BRIDGE	5.0 / 80.0	400.0															26,179	30,106	65,447
3	CKE3	-1 +40.000 0 +20.000	BRIDGE	3.0 / 80.0	240.0															15,707	18,063	65,447
	A3	9 +10.000 9 +40.000	VIADUCT	6.9 / 30.0	207.0															18,776	21,592	90,703
2	A4	276 +15.000 276 +60.000	BRIDGE	2.0 / 45.0	90.0															8,560	9,844	95,108
4	SHC	19 +18.000 22 +5.000	VIADUCT	7.0 / 47.0	329.0	2	PC	33,276	10,948	1,809	Pile Φ600	5,860	7,669	756	Pile Φ600	2,660	3,416	1,420	12,505	23,453	26,971	71,285
	SHC	19 +16.000 24 +6.000	VIADUCT	7.0 / 90.0	630.0	4	PC	33,276	20,964	1,809	Pile Φ600	5,860	7,669	2,268	Pile Φ600	7,980	10,248	1,420	19,337	40,301	46,346	63,970
		PART1(SOUTHERN HIGHWAY) NO. OF BRIDGE : 0 NO. OF VIADUCT: 0					PART2-4(OUTER CIRCULAR HIGHWAY) NO. OF BRIDGE : 3 NO. OF VIADUCT: 3							COLOMBO KATUNAYAKE EXPRESSWAY NO. OF BRIDGE : 0 NO. OF VIADUCT: 1									
		TOTAL																		167,624	192,767	

Tab.A.1.18 Quantities of Box Culvert(INTERCHANGE & JUNCTION)

PART	IC & JCT	STATION		SHAPE W(m)* H(m)	SHAPE INNER SECTION(m^2)	LENGTH(m)	RATE(Rs.)	COST (x10^3Rs.)	REMARKS
	CKE7	C RAMP	3 +15.000	6.00 * 6.00	36.00	35.00	30,000	37,800.00	UNDERPASS
3	CKE2	MAIN PART	3 +00.000	16.00 * 5.50	88.00	30.00	30,000	79,200.00	UNDERPASS
TOTAL		CKE				35.00		37,800.00	
		OCH				30.00		79,200.00	

(INTERCHANGE & JUNCTION)

Tab.A.1.19 Interchange at Road A2

BRIDGE	L = 0.0 m	①
	W = 0.0 m	②
	A = 0.0 m^2	① x ②
RETAINIG WALL	H = 0.0 m	③
	L = 0.0 m	④
EMBANKMENT	V = 0.0 m^3	③ x ④ x ② /2
PAVEMENT	A = 24,200.0 m^2	improving section

APPENDIX A2

BREAKDOWN OF CONSTRUCTION COST & ENGINEERING COST

APPENDIX A2 BREAKDOWN OF CONSTRUCTION COST & ENGINEERING COST

1.1 Summary of Project Cost

1.1.1 Main Part

Tab.A.2.1 and Tab.A.2.2 show the summary of project cost for main part at initial and final stages. That tables show the Southern Highway(SH) portion and the Outer Circular Highway(OCH) Project Portion.

List

Tab.A.2.1	: SUMMARY OF PROJECT COST (INITIAL STAGE)
Tab.A.2.2	: SUMMARY OF PROJECT COST (FINAL STAGE)

1.1.2 Interchange (IC) and Junction (JCT)

Tab.A.2.3～Tab.A.2.6 show the cost break down for the interchange and junction That tables show the SH portion, the OCH portion and the Colombo Katunayake Expressway (CKE) portion.

List

Tab.A.2.3～Tab.A.2.6	: COST BREAK DOWN FOR INTERCHANGE & JUNCTION (PART1～PART4)

ANNEX I

TRAFFIC SURVEY DATA &
TRAFFIC MODEL RESULTS

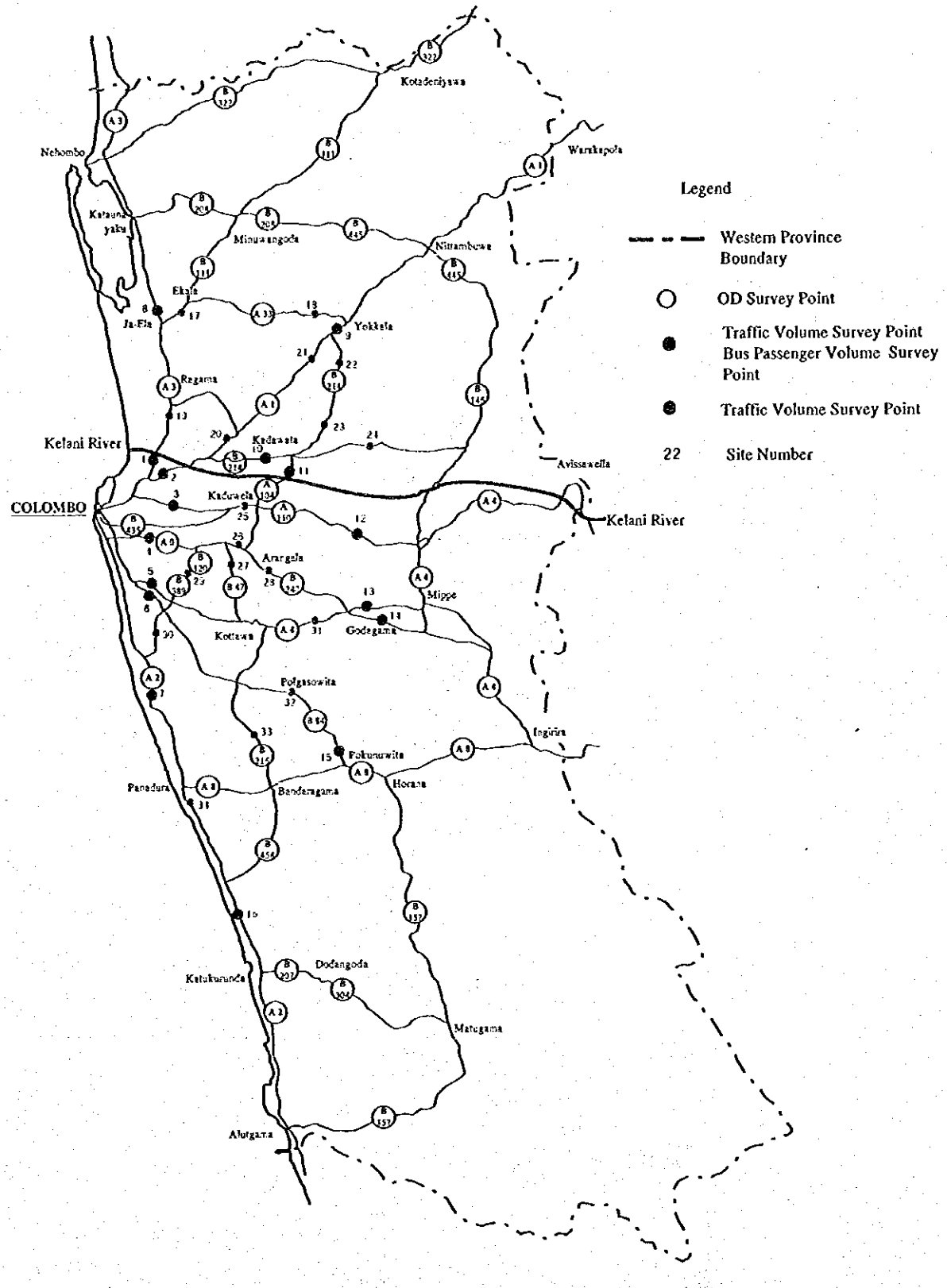
Contents

1. Traffic Survey Data

1.1 OD, Traffic Volume,

&

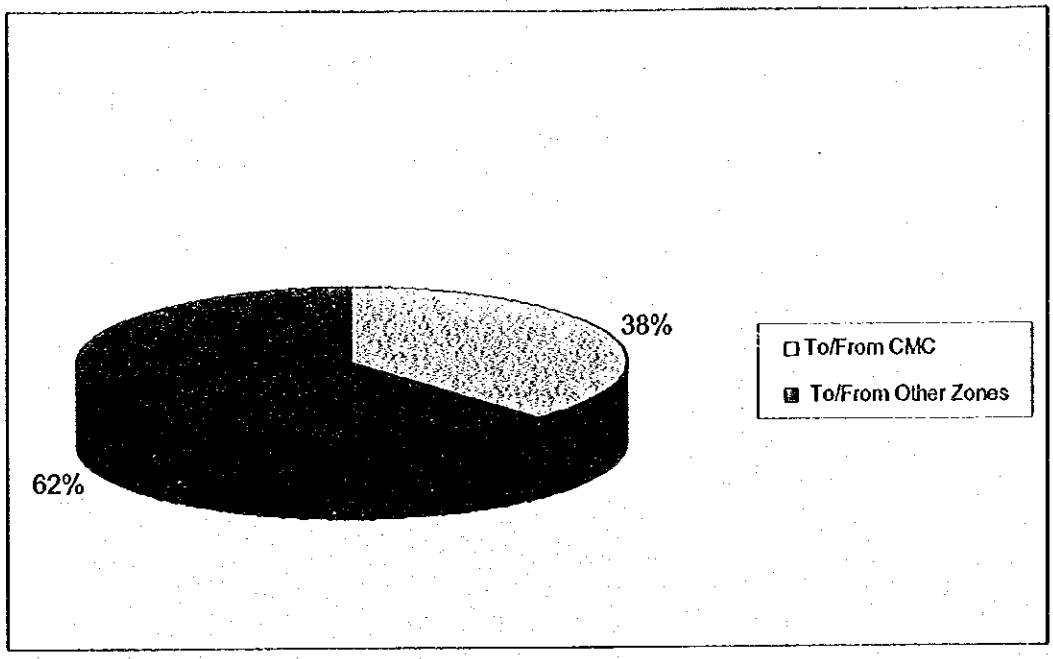
Bus Passenger Volume Surveys



Locations for OD Survey, Traffic Volume Survey & Bus Passenger Volume Survey

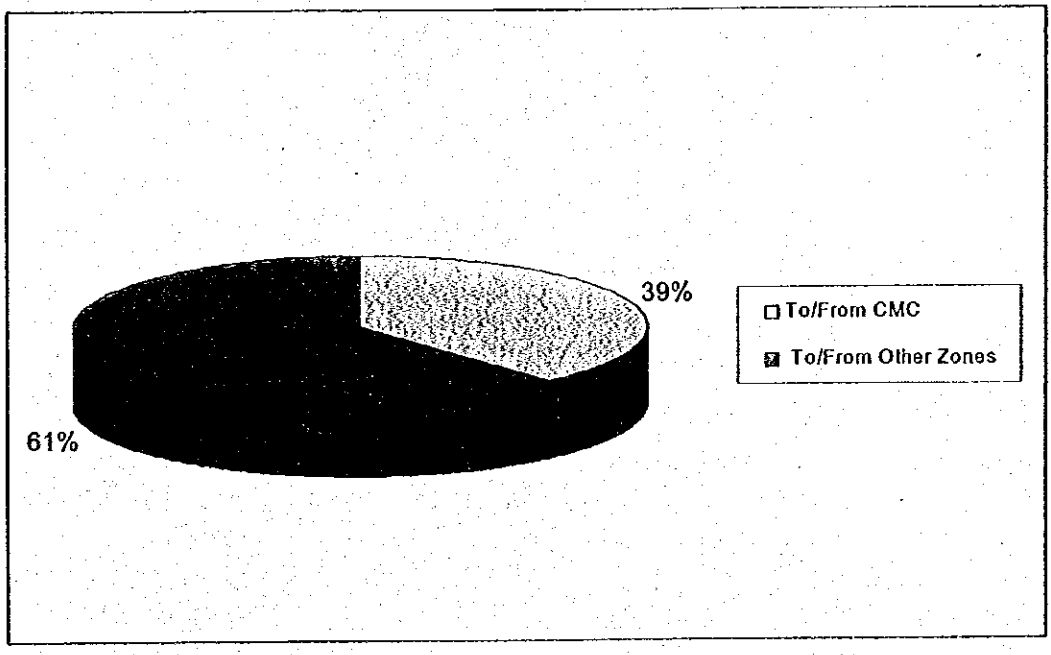
Site # 1

Passenger Vehicle Trip Generation/Attraction

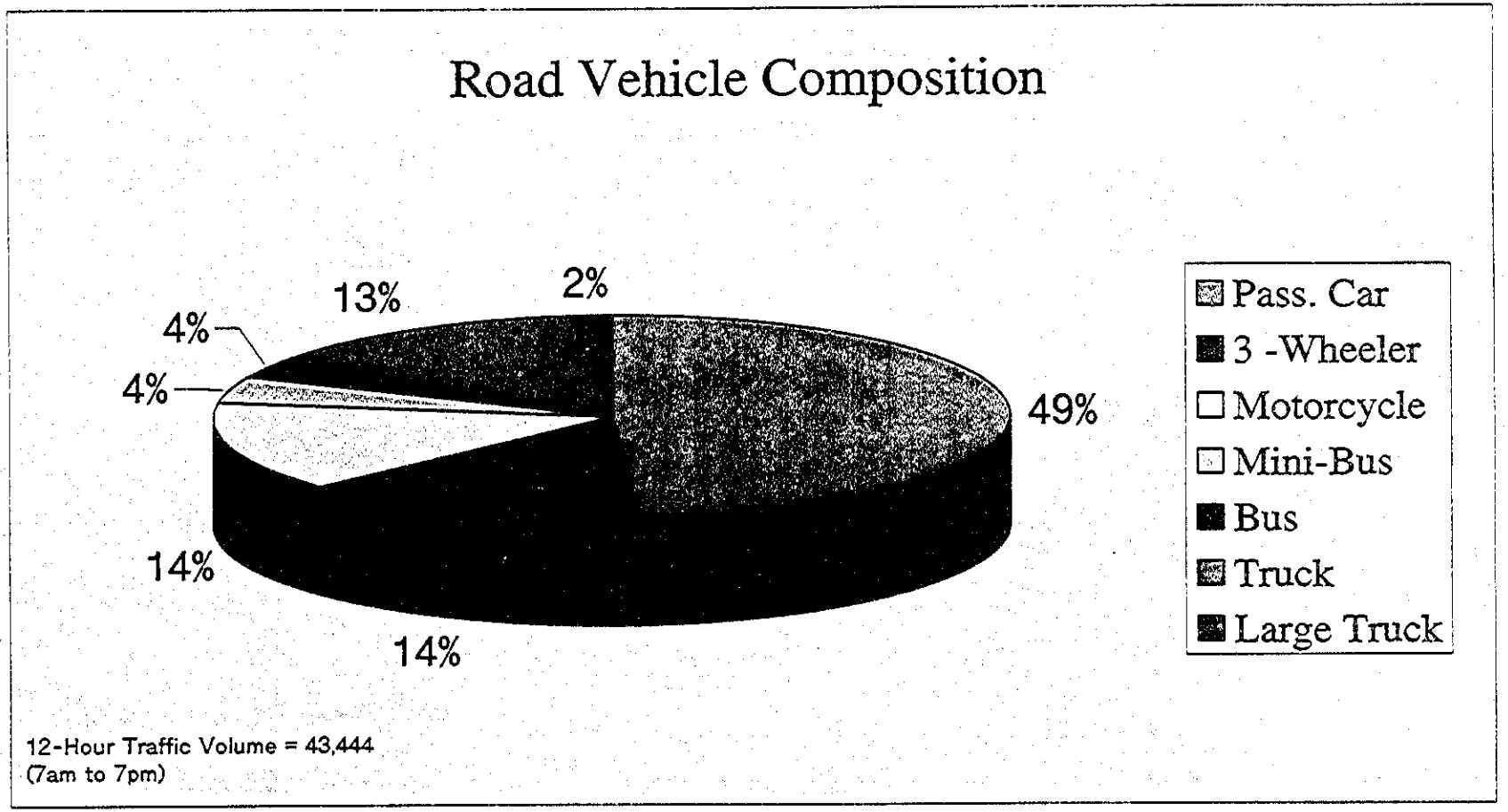


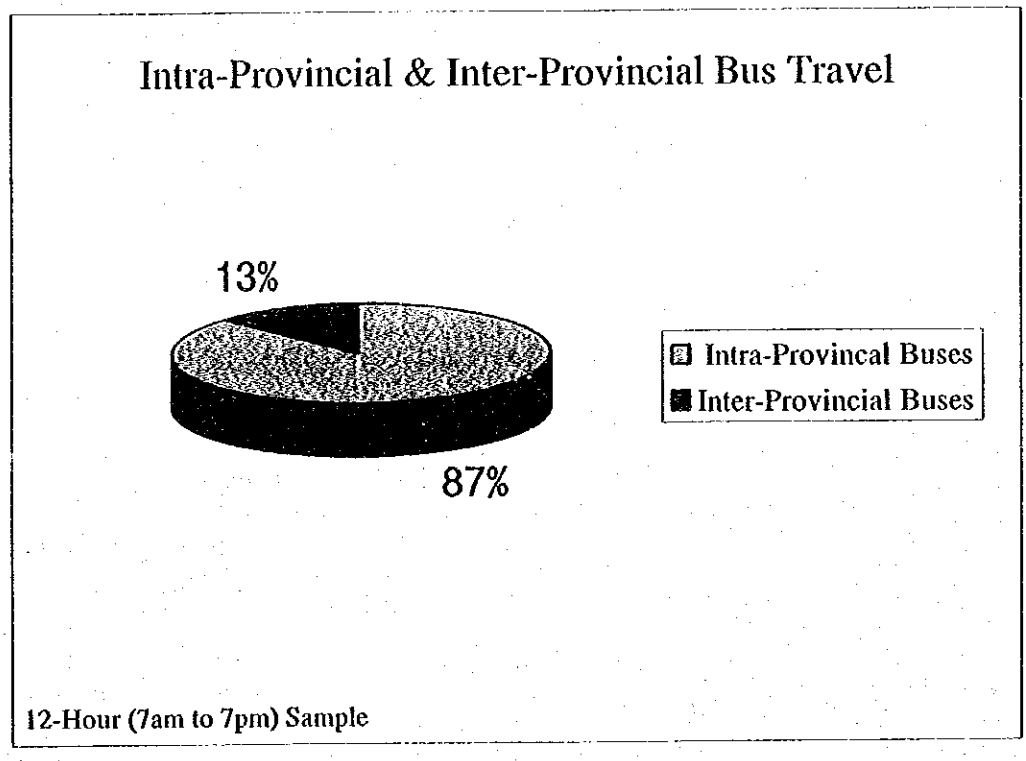
Number Of Samples : 1035
Sampling Rate : 3.1%
Avg Veh. Occupancy : 1.5

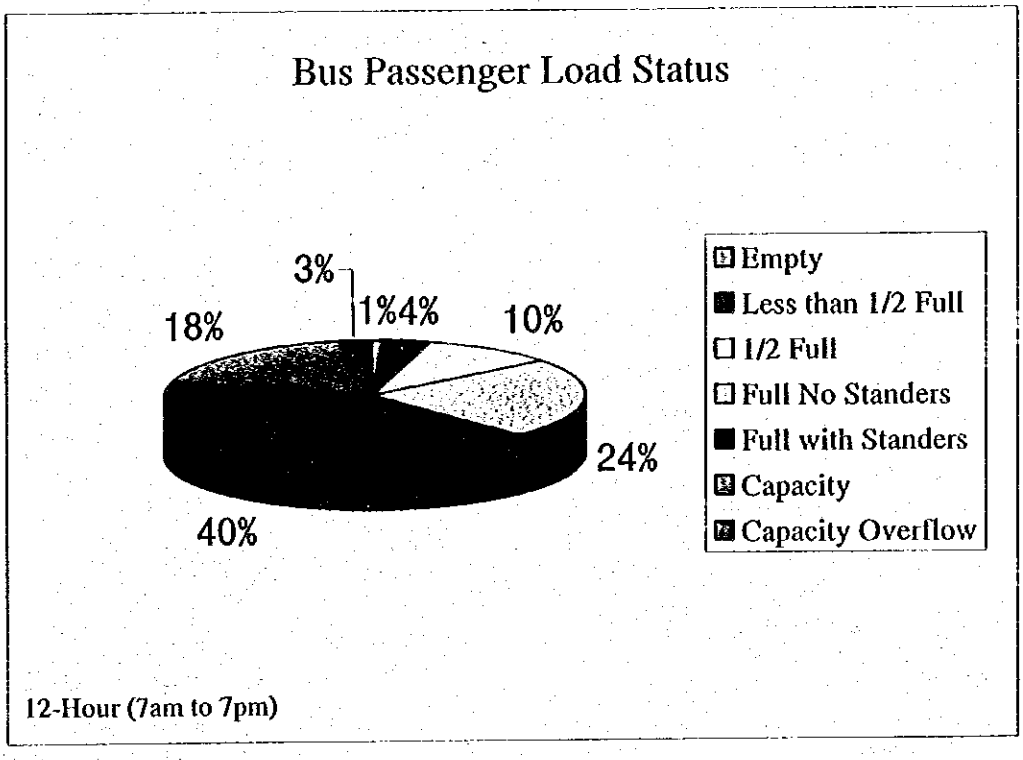
Freight Vehicle Trip Generation/Attraction

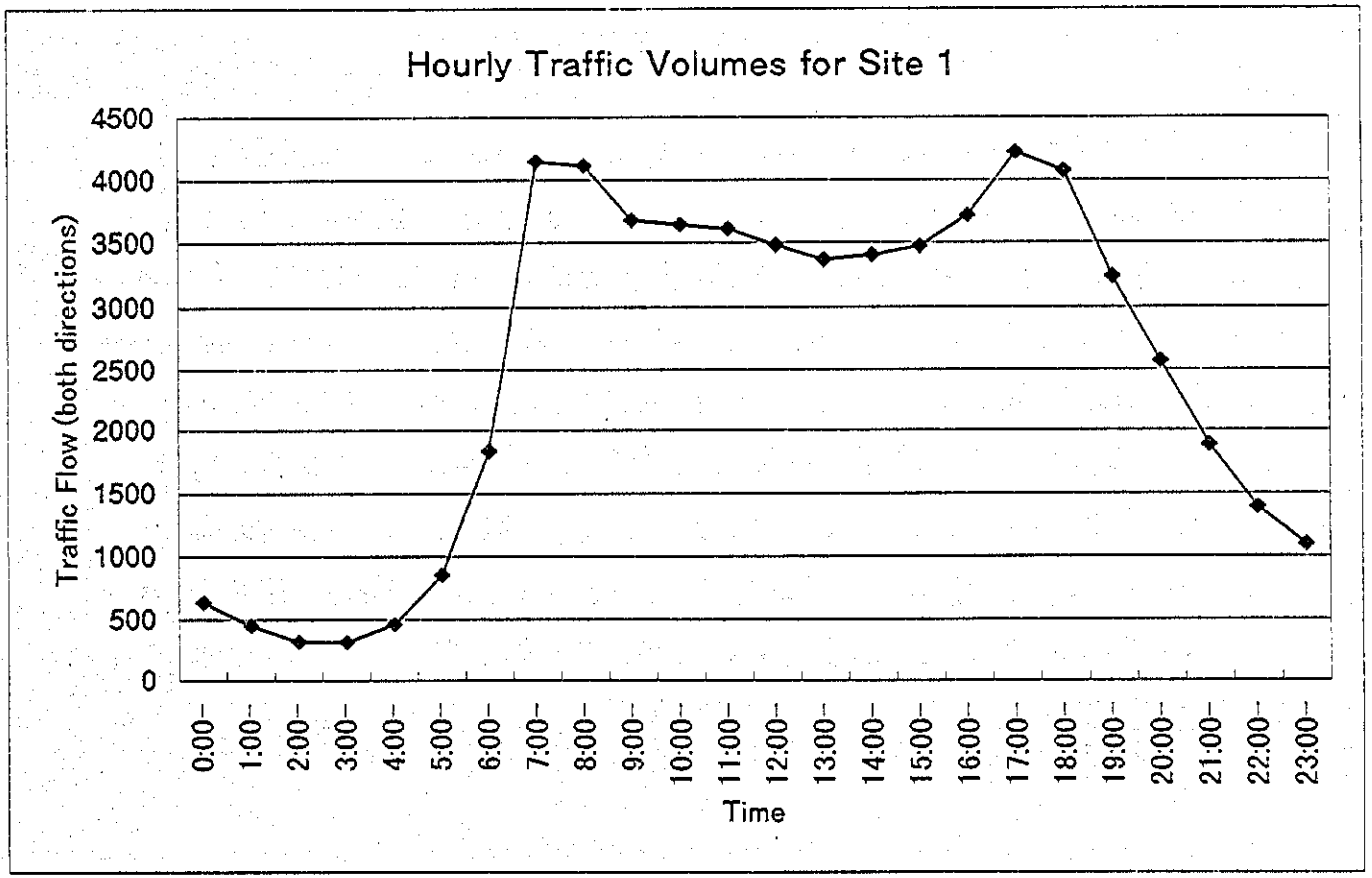


Number Of Samples : 742
Sampling Rate : 11.5%
Avg Veh. Occupancy : 1.7


Road Vehicle Composition
13%
2%
4%
4%
49%
14%
14%
Pass. Car
3 -Wheeler
Motorcycle
Mini-Bus
Bus
Truck
Large Truck
12-Hour Traffic Volume = 43,444
(7am to 7pm)

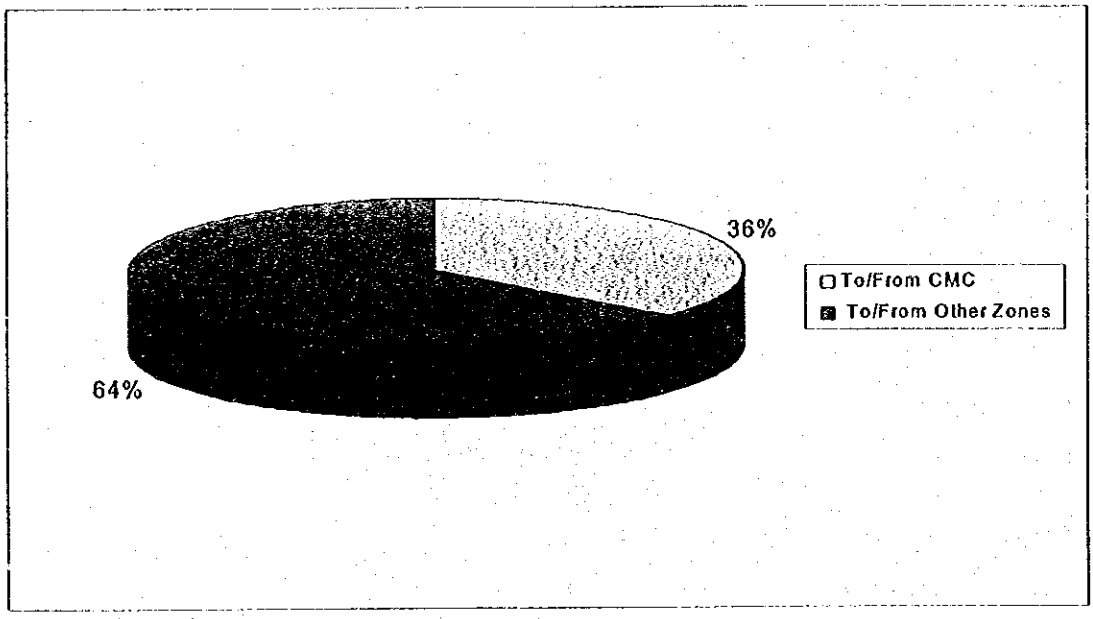

Intra-Provincial & Inter-Provincial Bus Travel
13%
87%
Intra-Provincal Buses
Inter-Provincial Buses
12-Hour (7am to 7pm) Sample


Bus Passenger Load Status
3%
1%
4%
10%
18%
24%
40%
Empty
Less than 1/2 Full
1/2 Full
Full No Standers
Full with Standers
Capacity
Capacity Overflow
12-Hour (7am to 7pm)


Hourly Traffic Volumes for Site 1
Traffic Flow (both directions)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time

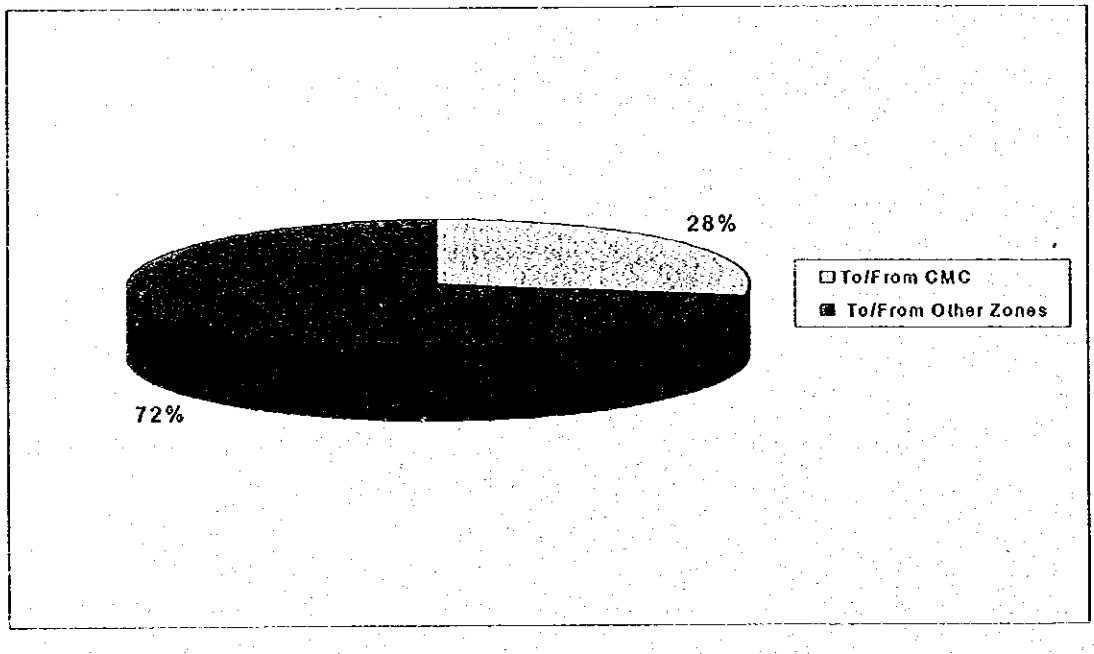
Site # 2

Passenger Vehicle Trip Generation/Attraction



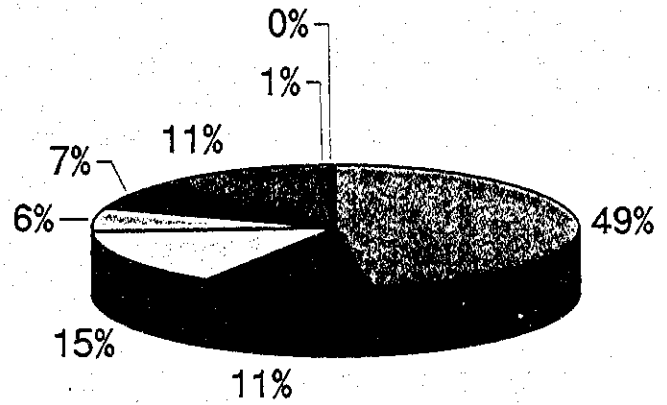
Number of Samples : 892
Sampling Rate : 4.4%
Avg Veh. Occupancy : 2.5

Freight Vehicle Trip Generation/Attraction



Number of Samples : 324
Sampling Rate : 9.5%
Avg Veh. Occupancy : 2.5

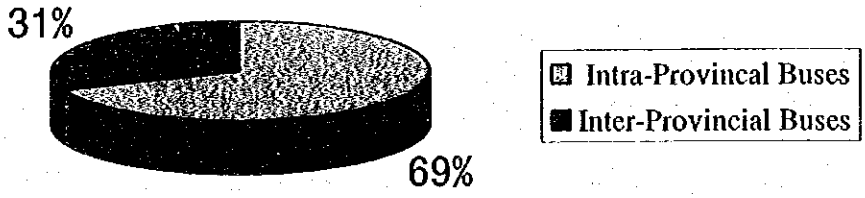
Road Vehicle Composition



- Pass. Car
- 3 -Wheeler
- Motorcycle
- Mini-Bus
- Bus
- Truck
- Large Truck
- Farm Veh.

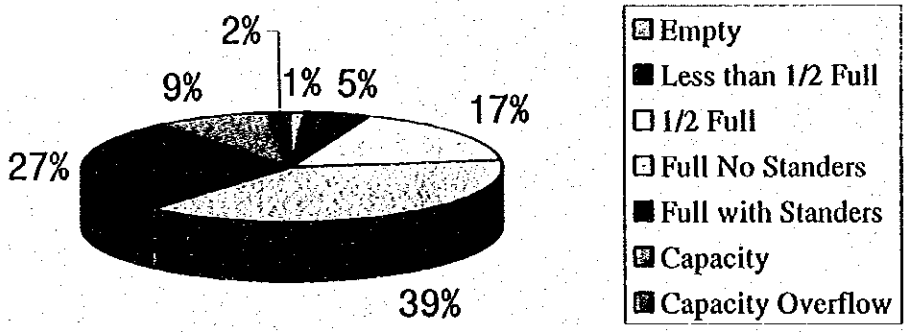
12-Hour Traffic Volume = 27,514
(7am to 7pm)

Intra-Provincial & Inter-Provincial Bus Travel



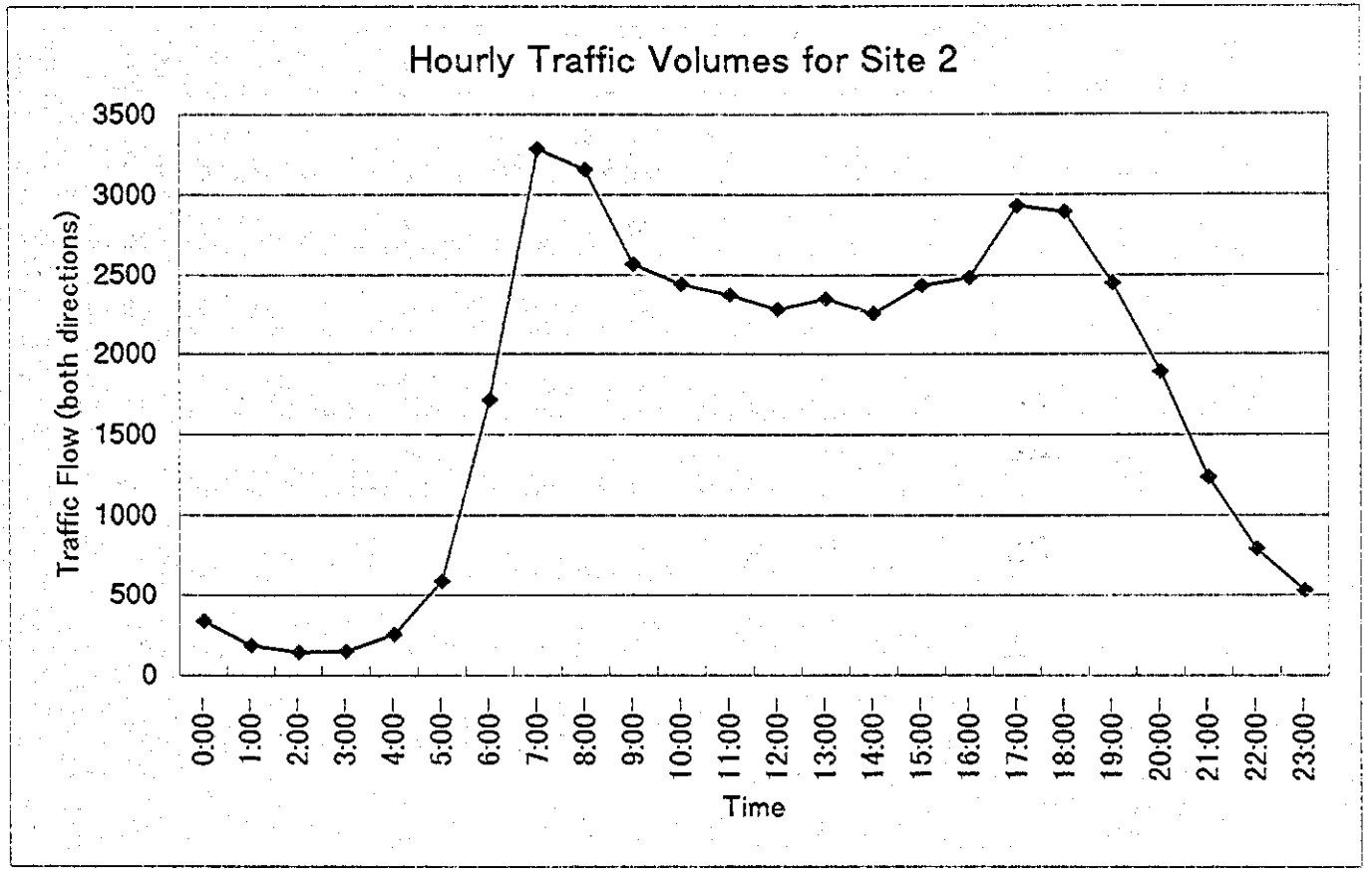
12-Hour (7am to 7pm) Sample

Bus Passenger Load Status



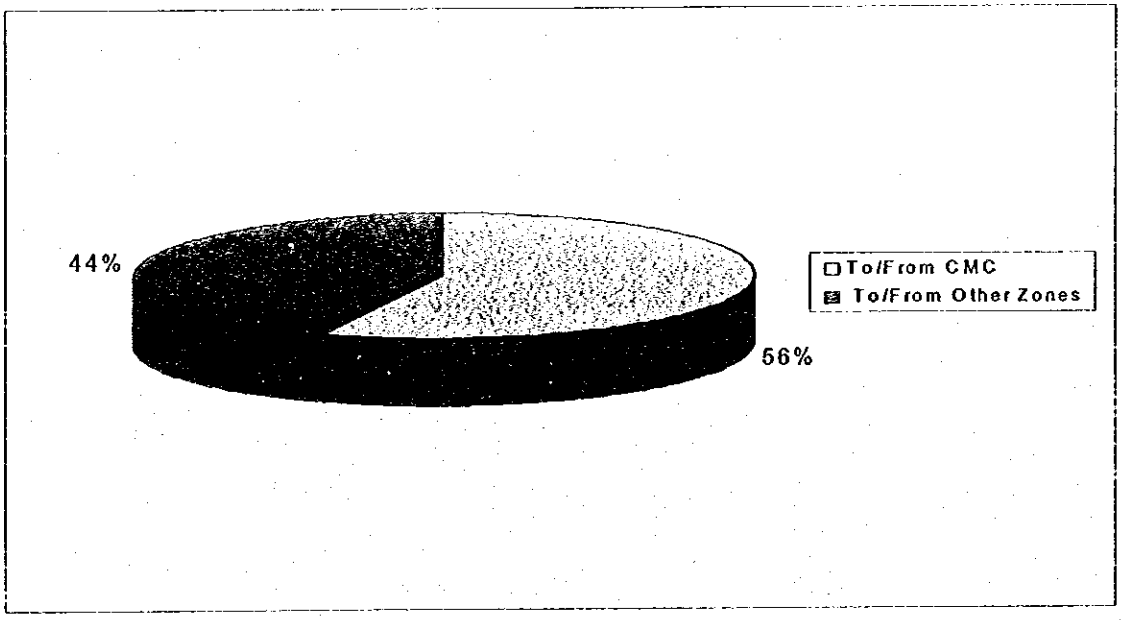
12-Hour (7am to 7pm)

Traffic Volume Survey Extract



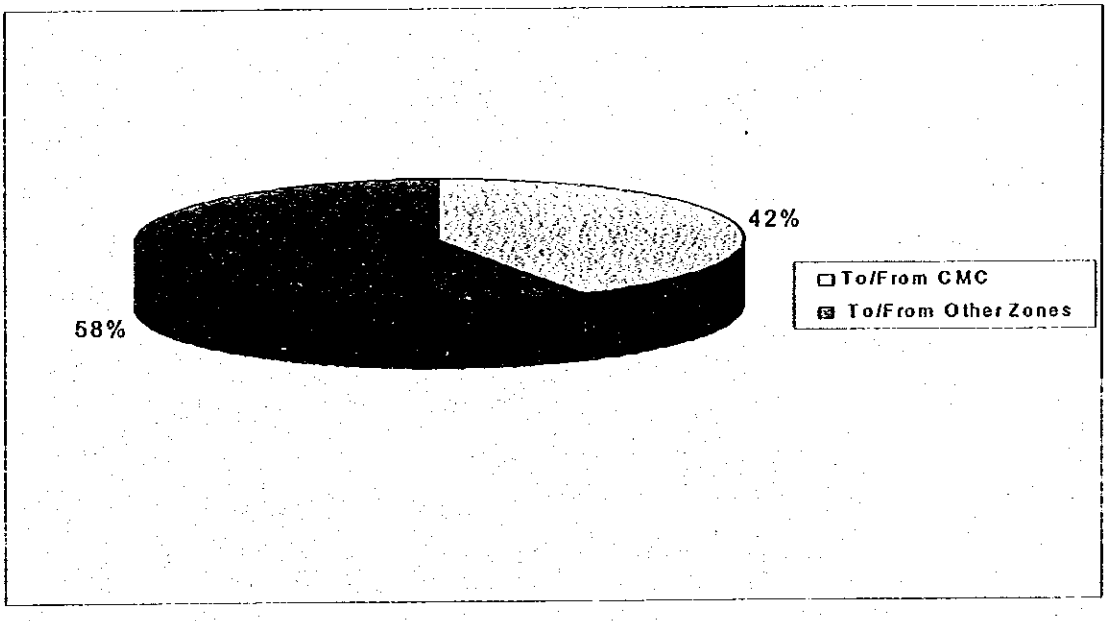
Site # 3

Passenger Vehicle Trip Generation/Attraction

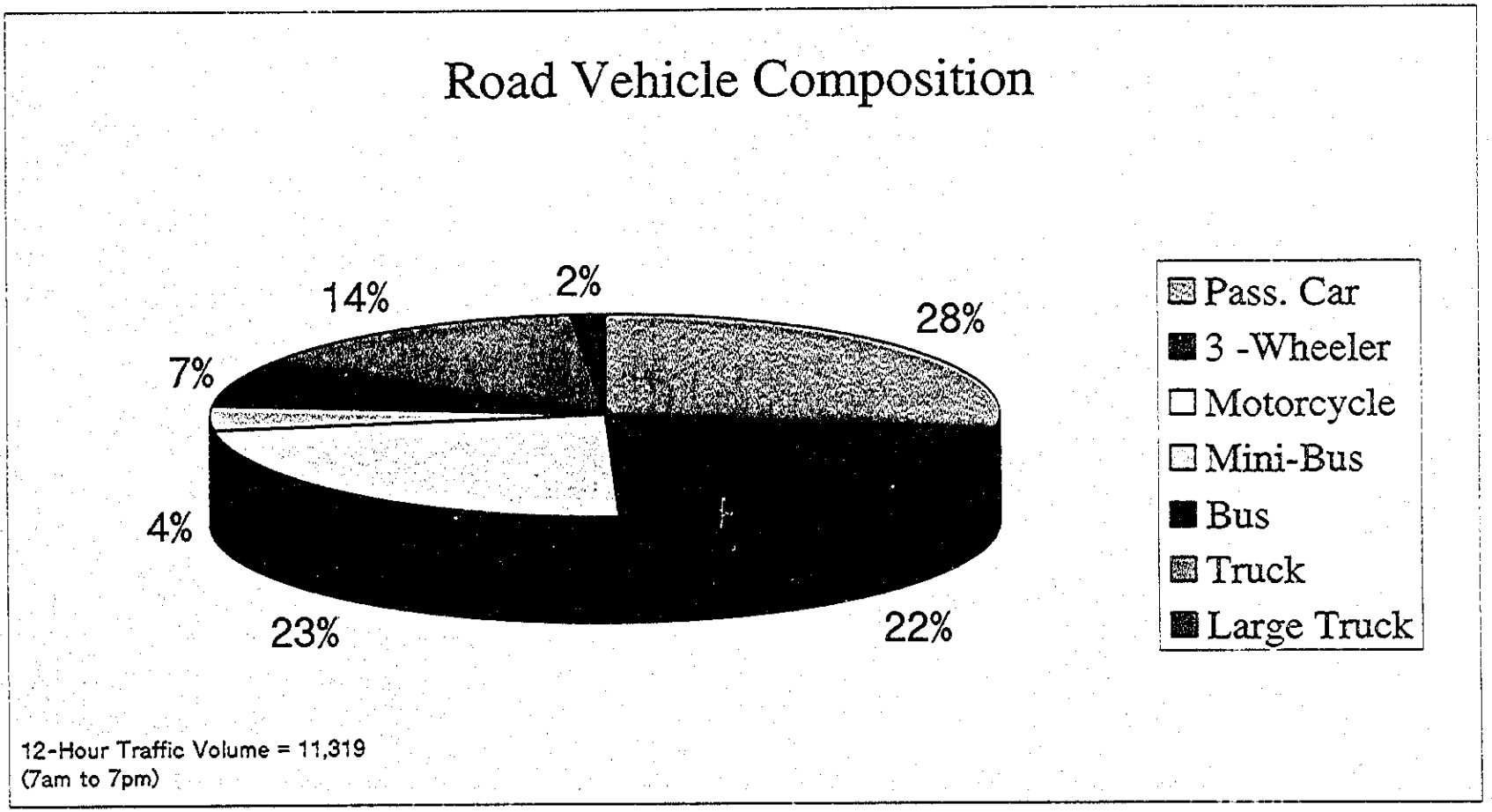


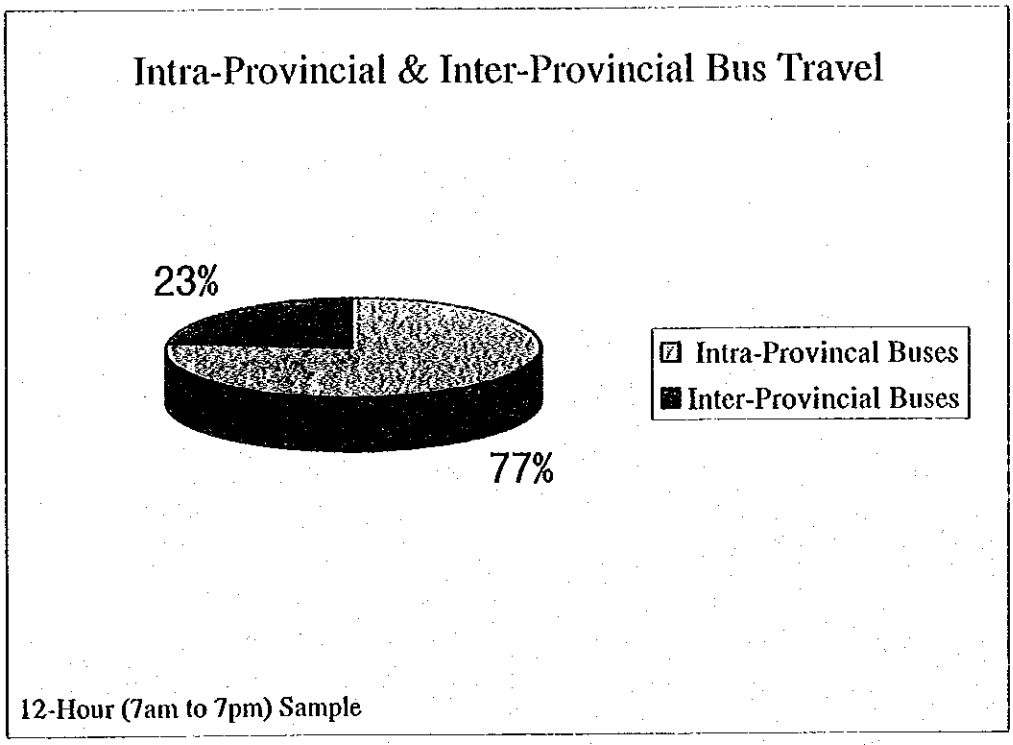
Number of Samples : 712
Sampling Rate : 8.7%
Avg Veh. Occupancy : 2.5

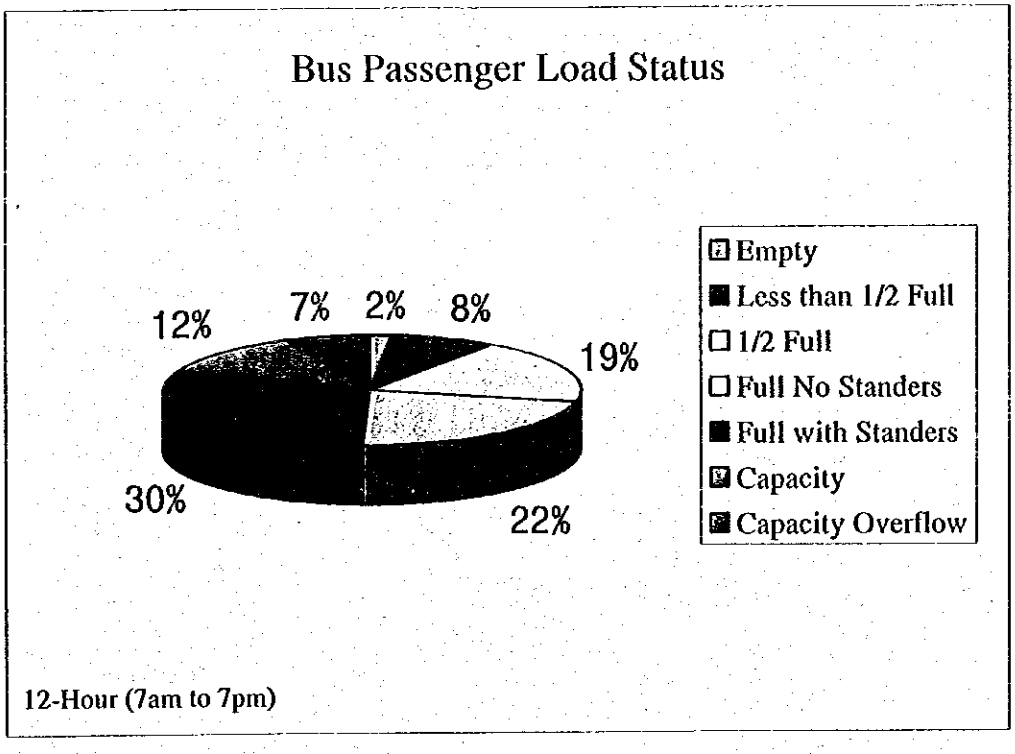
Freight Vehicle Trip Generation/Attraction



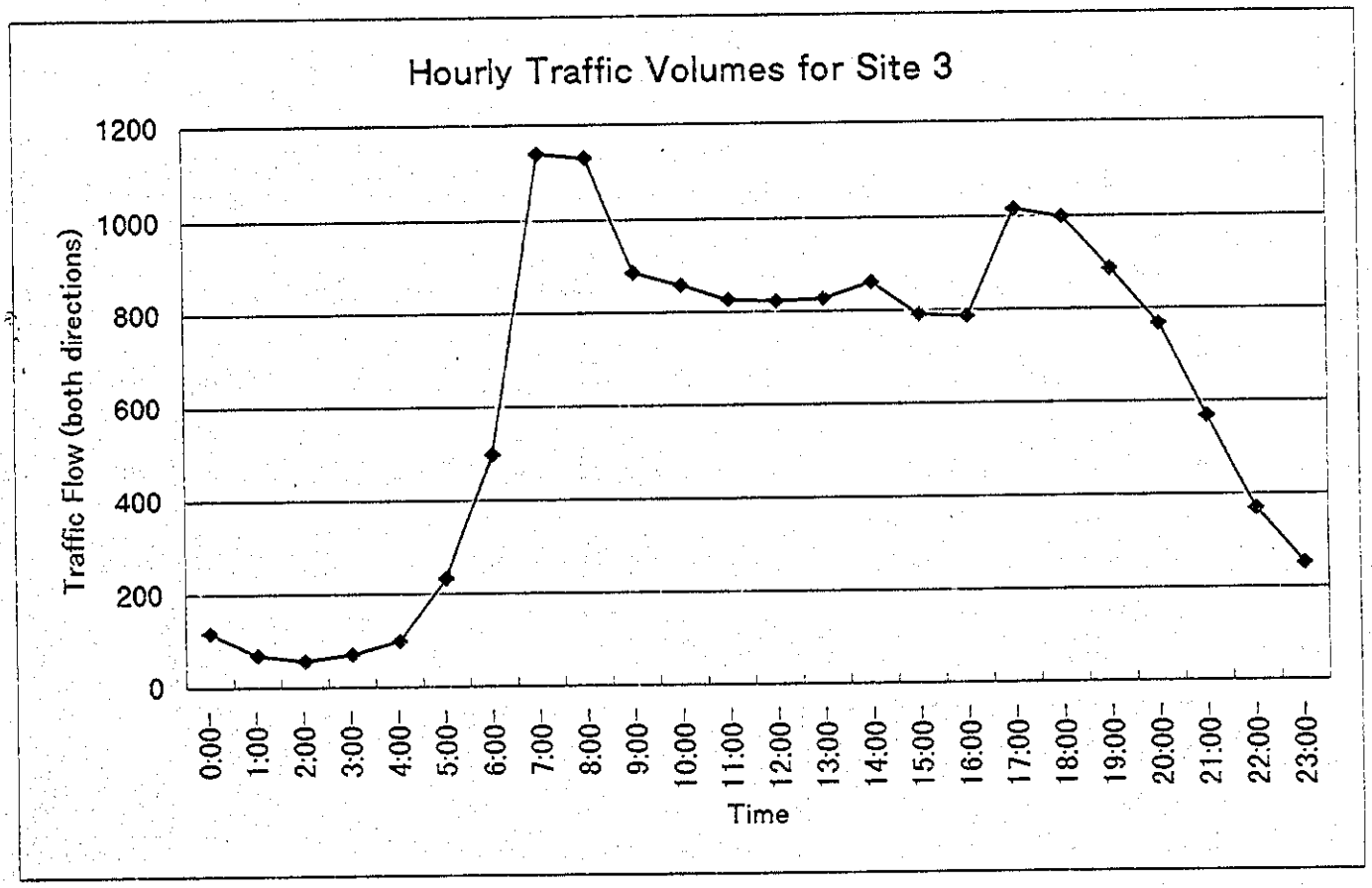
Number of Samples : 489
Sampling Rate : 26.9%
Avg Veh. Occupancy : 1.78


Road Vehicle Composition
14%
2%
28%
7%
4%
23%
22%
Pass. Car
3 -Wheeler
Motorcycle
Mini-Bus
Bus
Truck
Large Truck
12-Hour Traffic Volume = 11,319
(7am to 7pm)


Intra-Provincial & Inter-Provincial Bus Travel
23%
77%
Intra-Provincal Buses
Inter-Provincial Buses
12-Hour (7am to 7pm) Sample

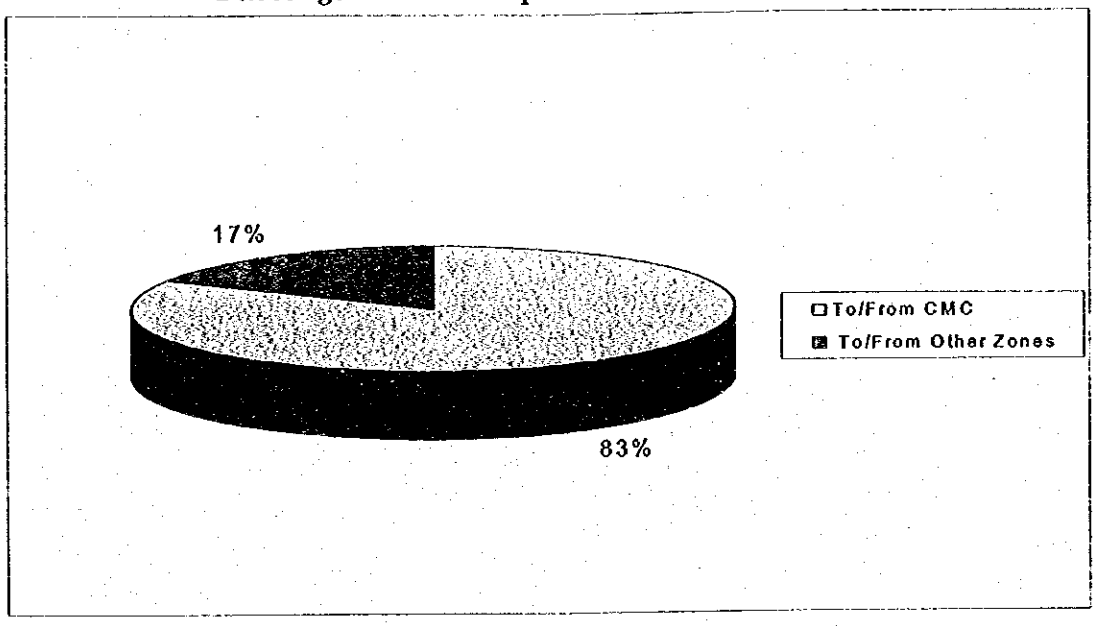

Bus Passenger Load Status
12%
7%
2%
8%
19%
30%
22%
Empty
Less than 1/2 Full
1/2 Full
Full No Standers
Full with Standers
Capacity
Capacity Overflow
12-Hour (7am to 7pm)

Traffic Volume Survey Extract



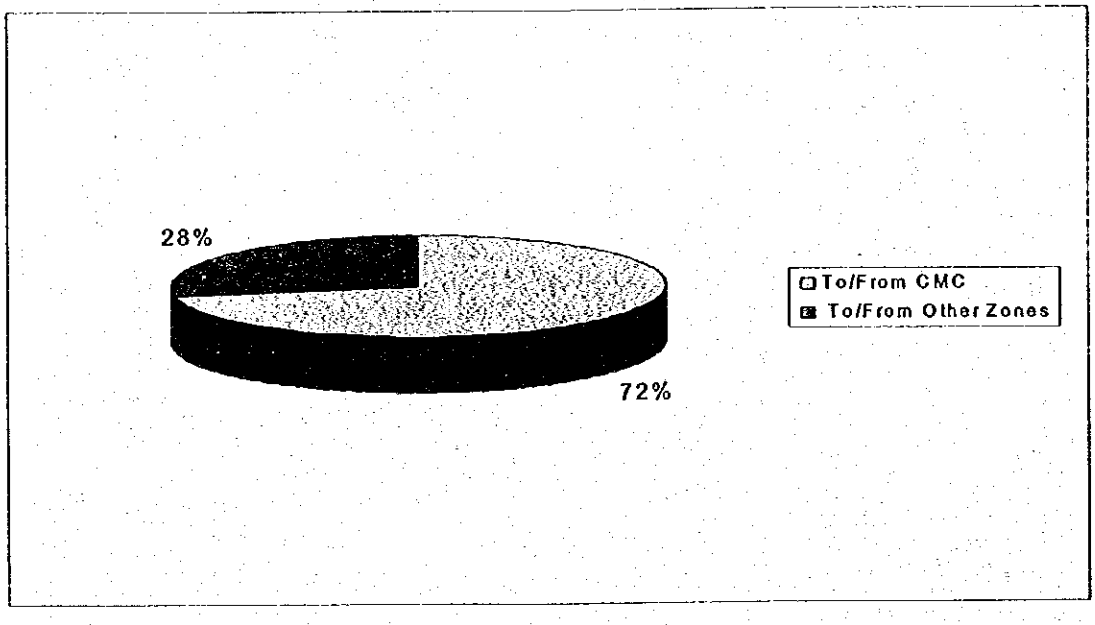
Site # 4

Passenger Vehicle Trip Generation/Attraction

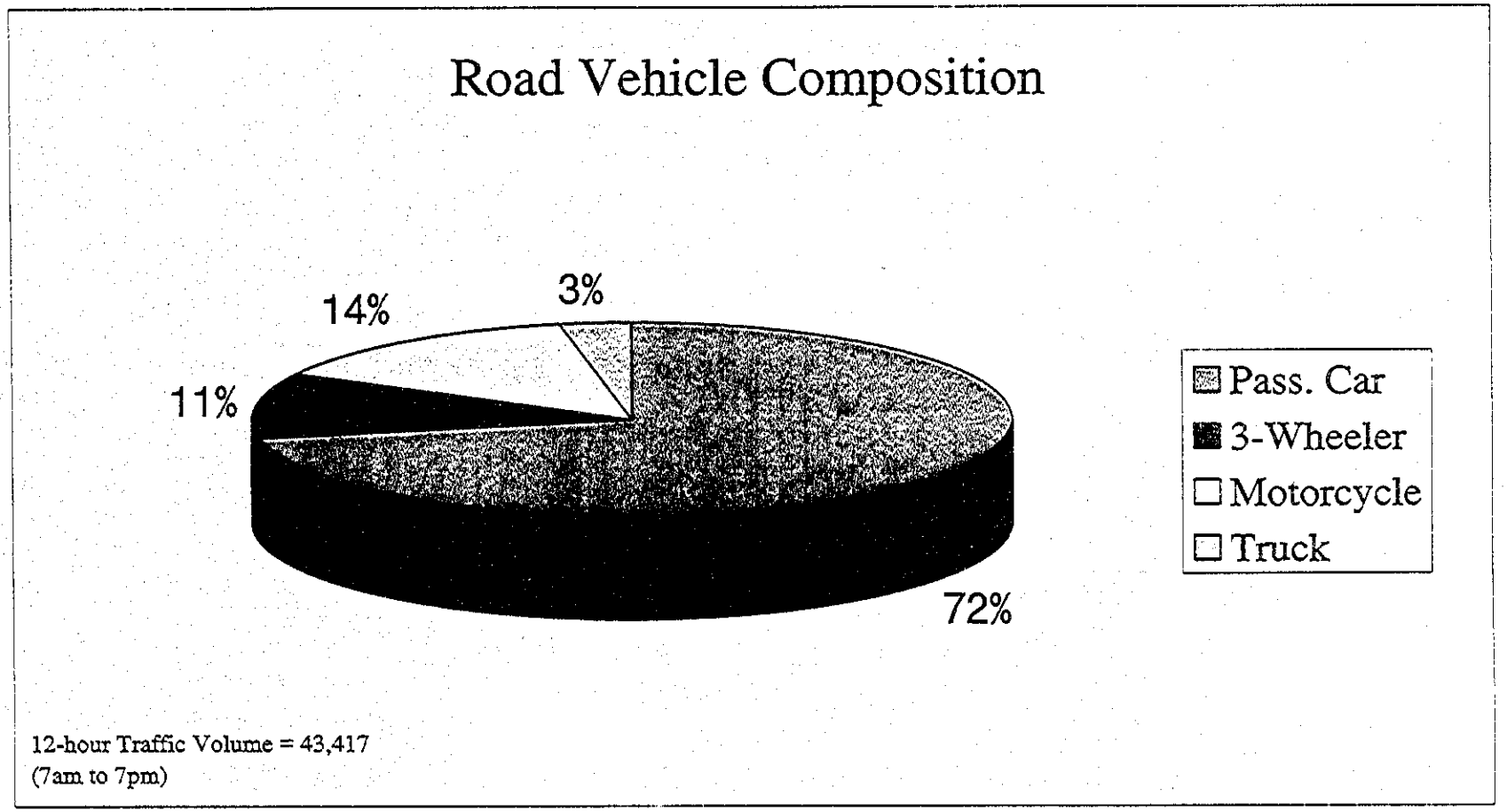


Number of Samples : 916
Sampling Rate : 2.2%
Avg Veh. Occupancy : 2.2

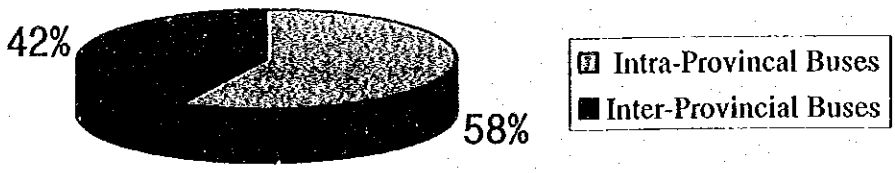
Freight Vehicle Trip Generation/Attraction



Number of Samples : 281
Sampling Rate : 19.7%
Avg Veh. Occupancy : 2.3

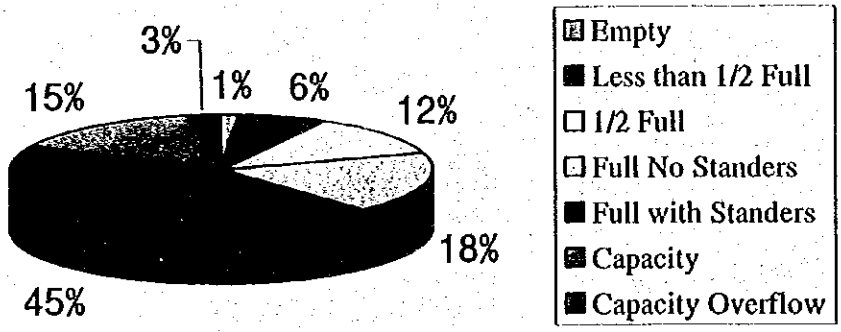

Road Vehicle Composition
14%
3%
11%
72%
Pass. Car
3-Wheeler
Motorcycle
Truck
12-hour Traffic Volume = 43,417
(7am to 7pm)

Intra-Provincial & Inter-Provincial Bus Travel



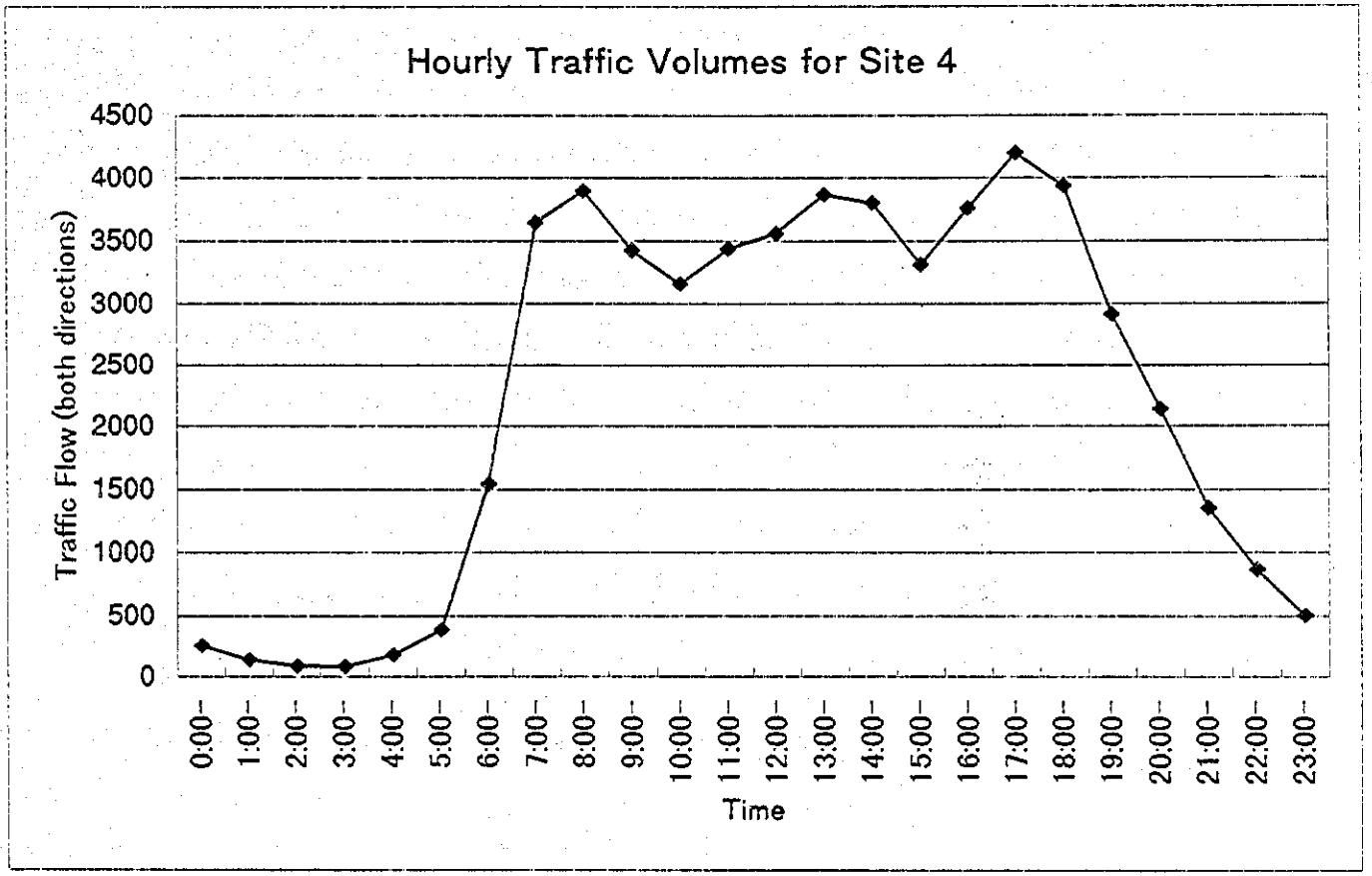
12-Hour (7am to 7pm) Sample

Bus Passenger Load Status



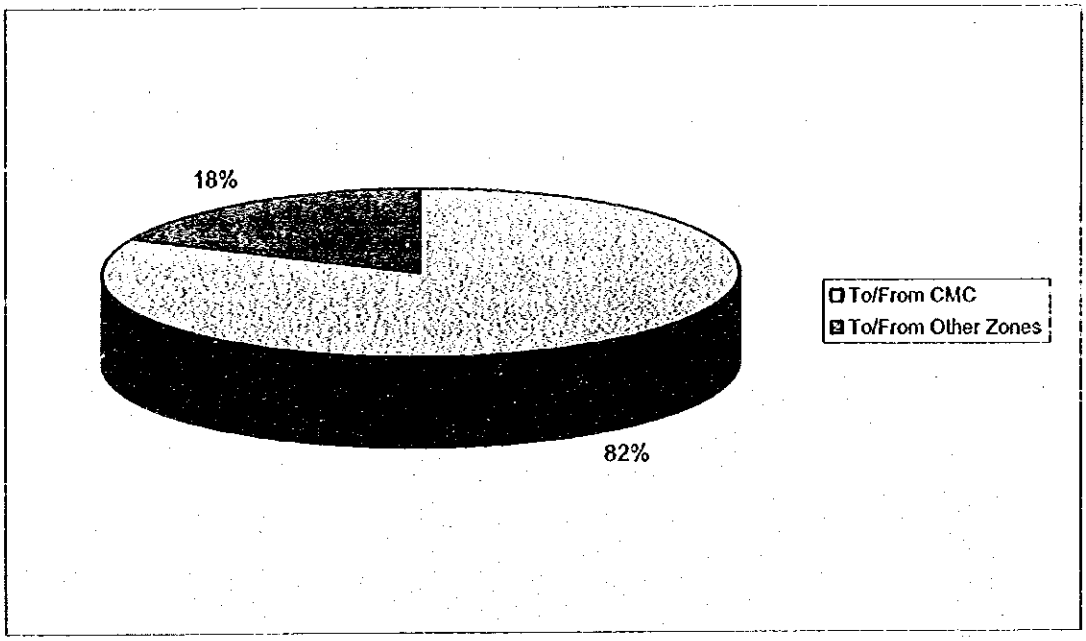
12-Hour (7am to 7pm)

Traffic Volume Survey Extract



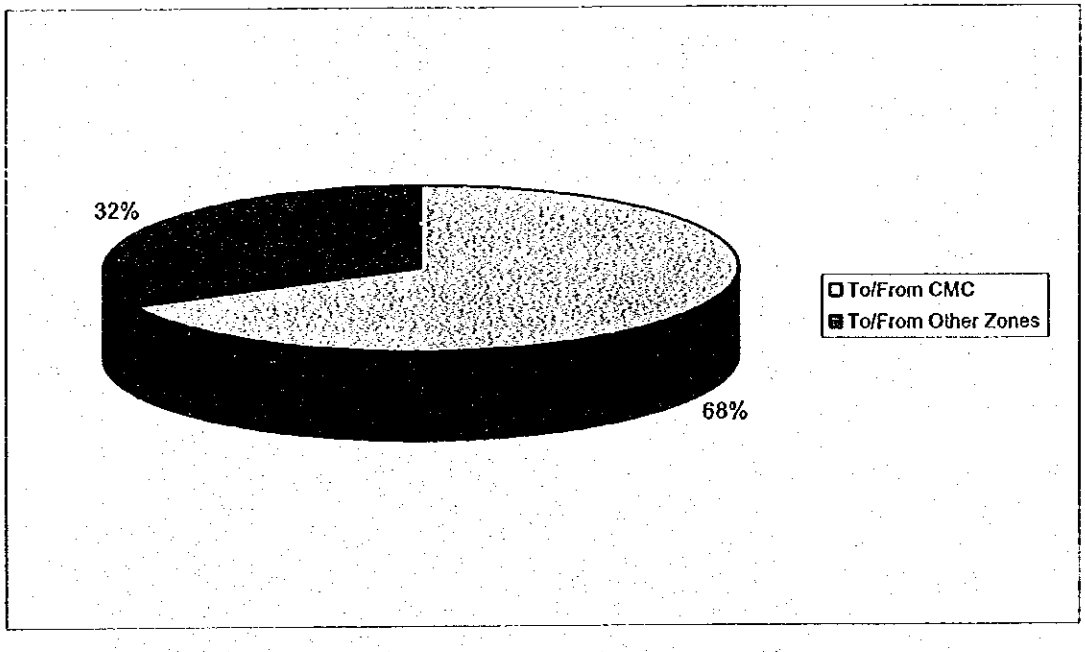
Site # 5

Passenger Vehicle Trip Generation/Attraction

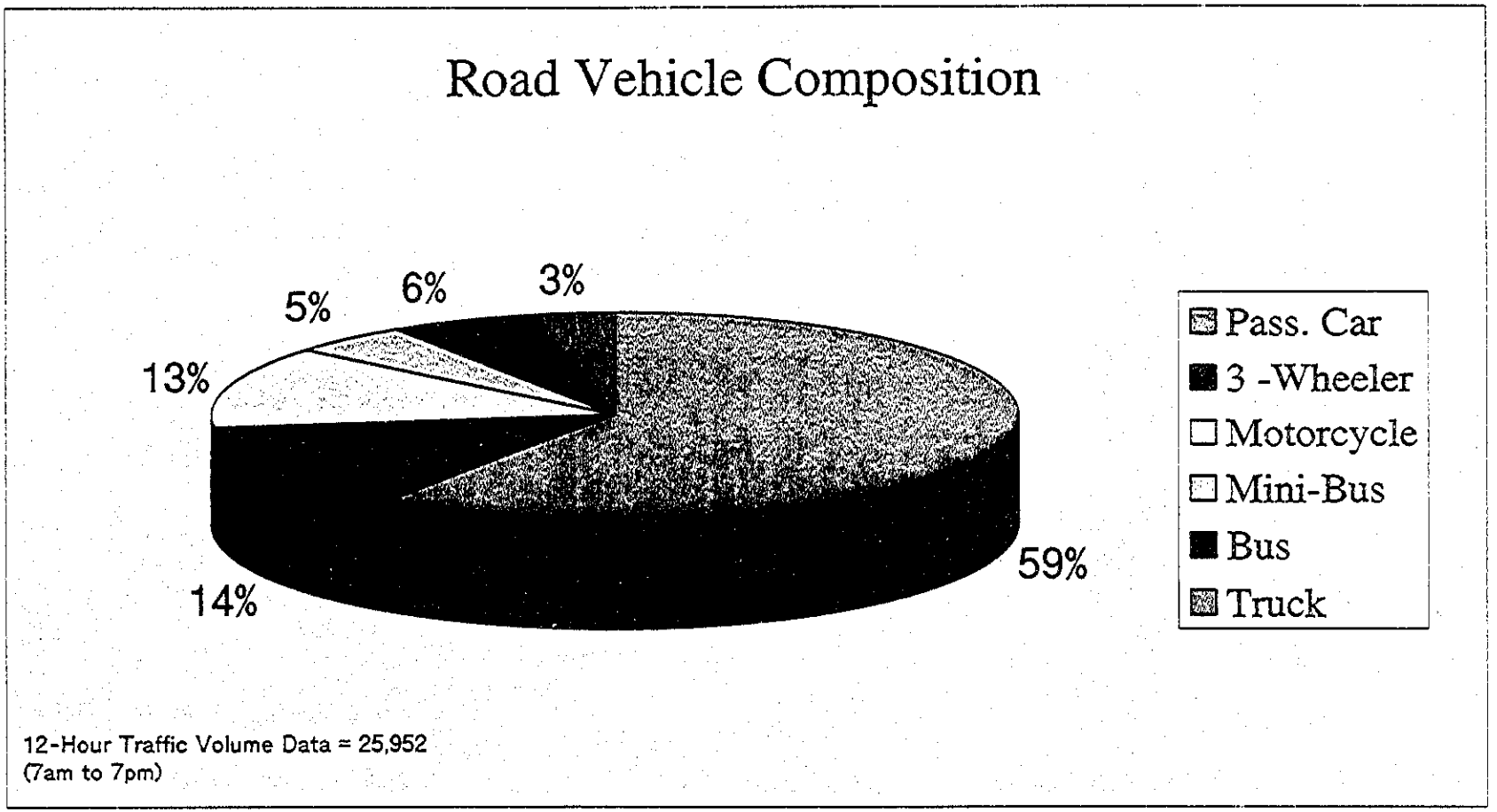


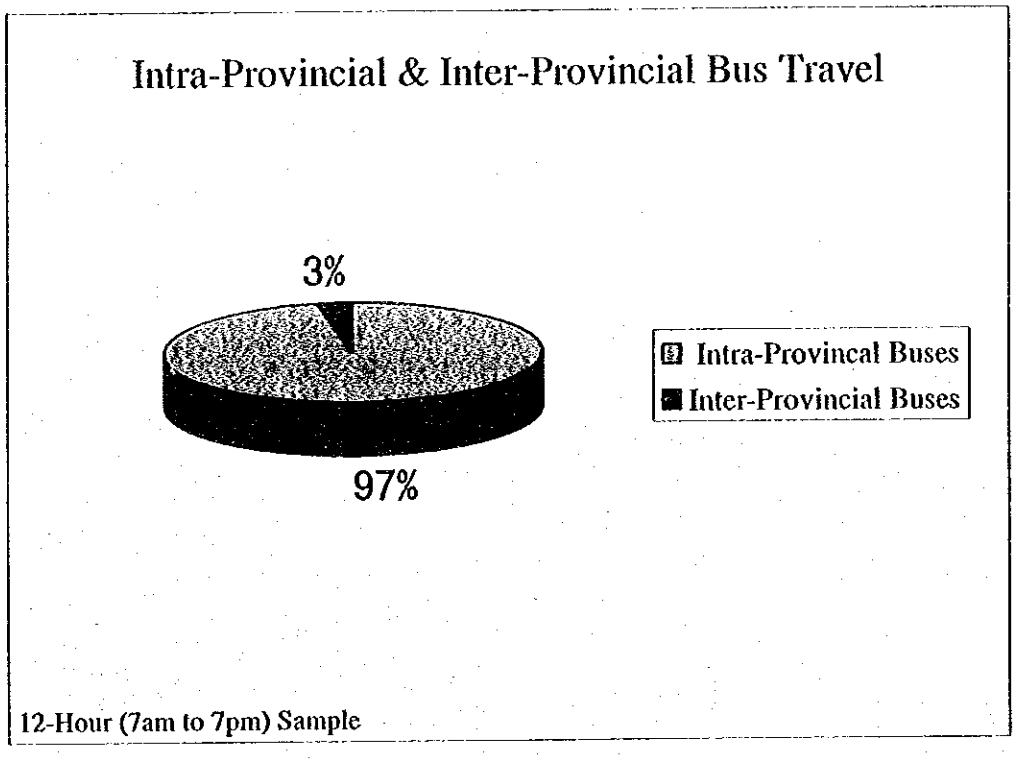
Number Of Samples : 1345
Sampling Rate : 6.0%
Avg Veh. Occupancy : 2.0

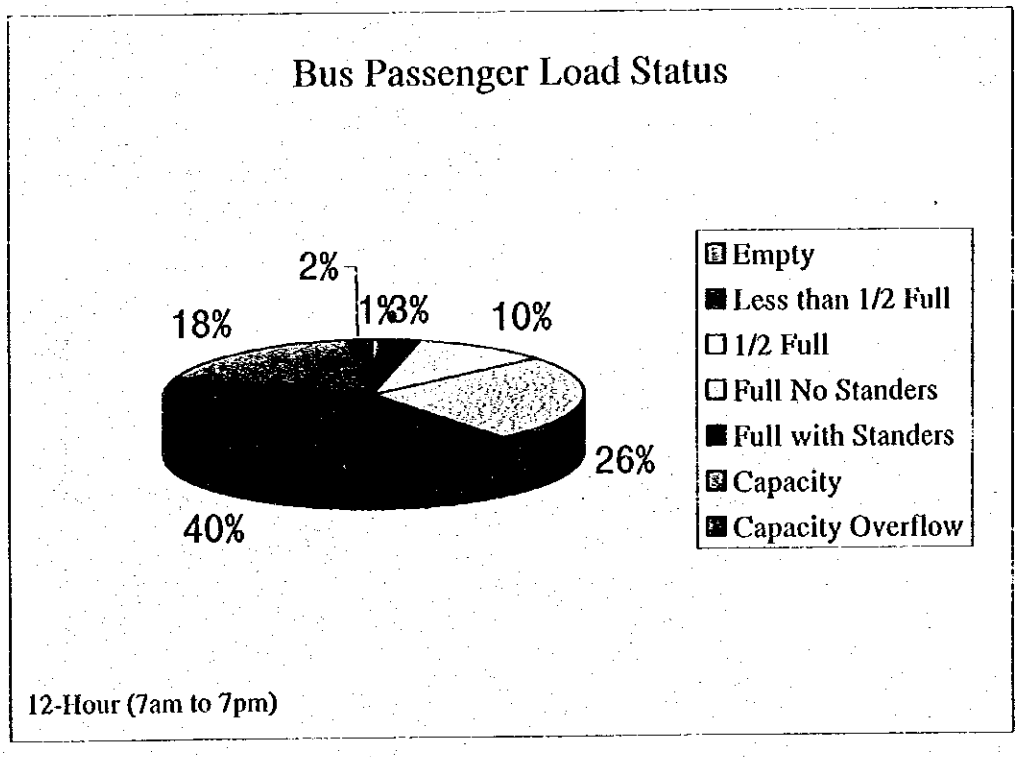
Freight Vehicle Trip Generation/Attraction

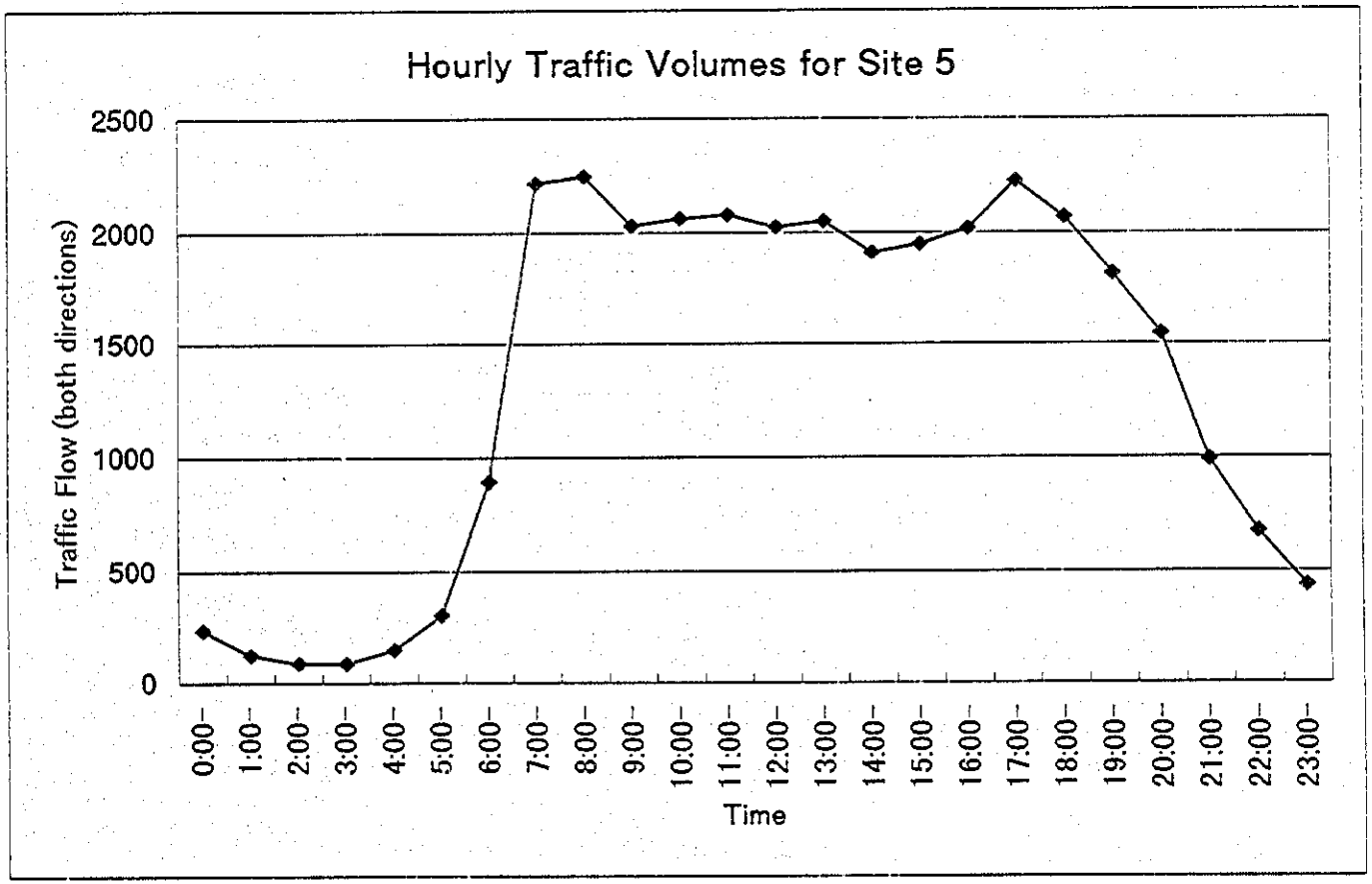


Number Of Samples : 438
Sampling Rate : 47.5%
Avg Veh. Occupancy : 2.3


Road Vehicle Composition
5%
6%
3%
13%
14%
59%
Pass. Car
3 -Wheeler
Motorcycle
Mini-Bus
Bus
Truck
12-Hour Traffic Volume Data = 25,952
(7am to 7pm)

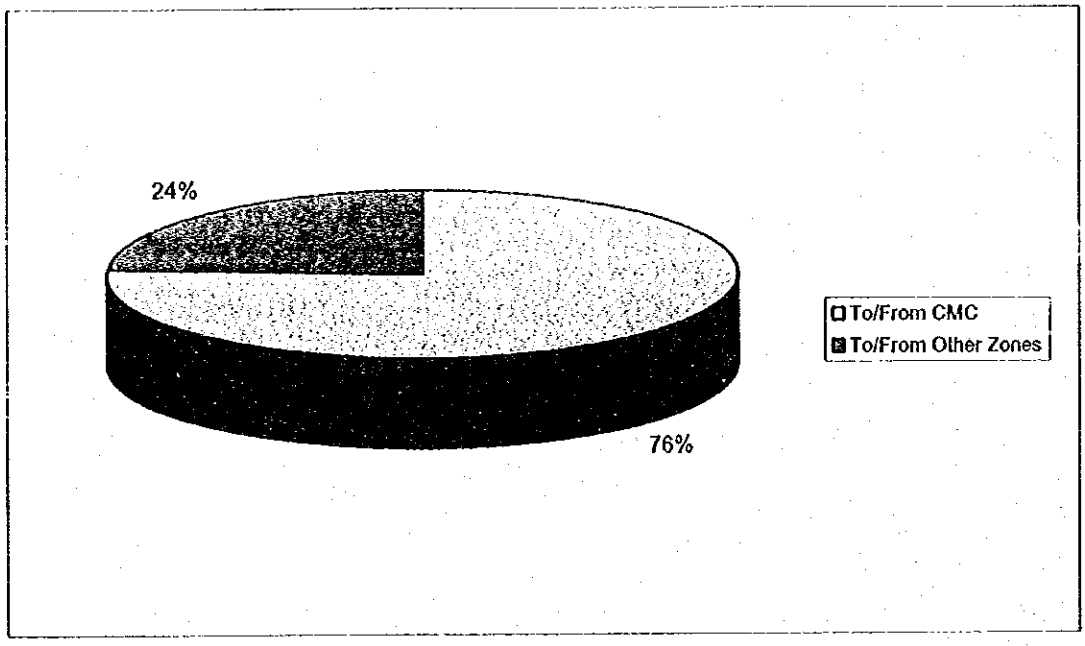

Intra-Provincial & Inter-Provincial Bus Travel
3%
97%
Intra-Provincal Buses
Inter-Provincial Buses
12-Hour (7am to 7pm) Sample


Bus Passenger Load Status
2%
1%
3%
10%
18%
26%
40%
Empty
Less than 1/2 Full
1/2 Full
Full No Standers
Full with Standers
Capacity
Capacity Overflow
12-Hour (7am to 7pm)


Hourly Traffic Volumes for Site 5
Traffic Flow (both directions)
2500
2000
1500
1000
500
0
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time

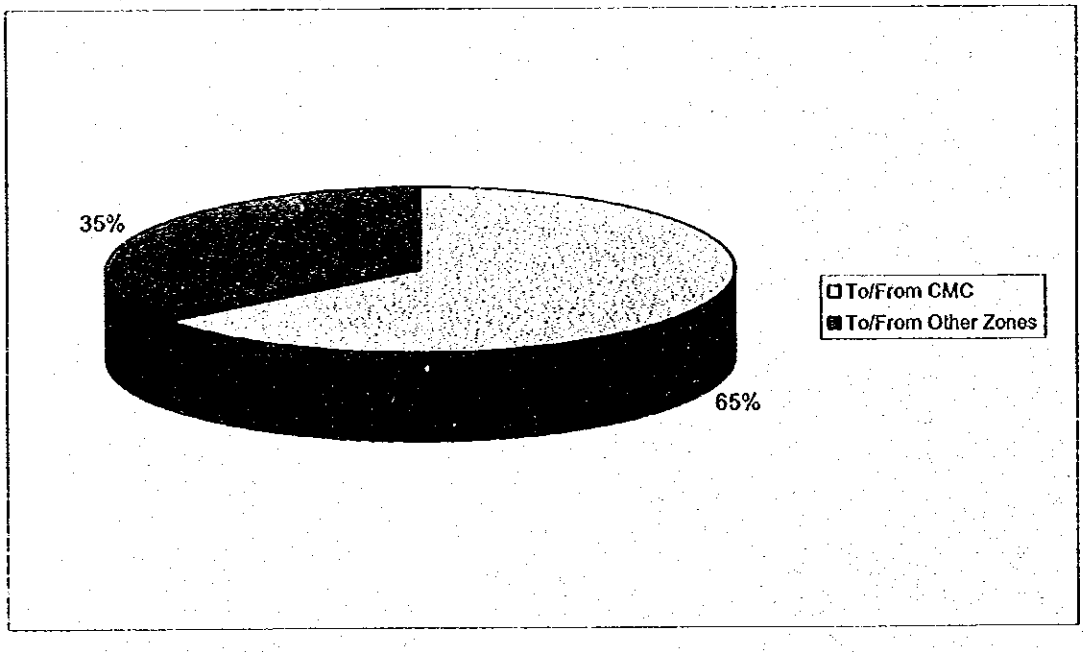
Site # 6

Passenger Vehicle Trip Generation/Attraction

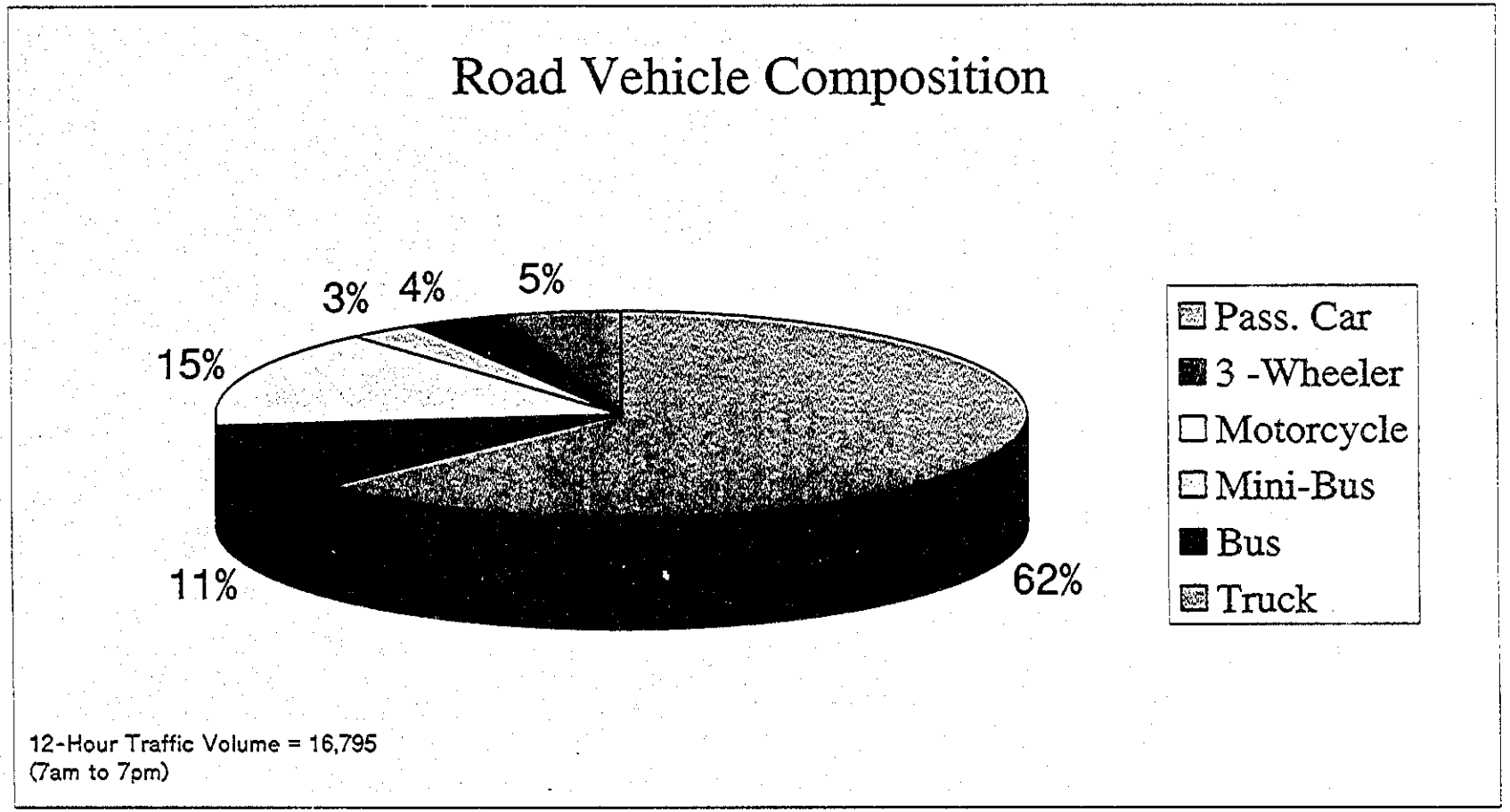


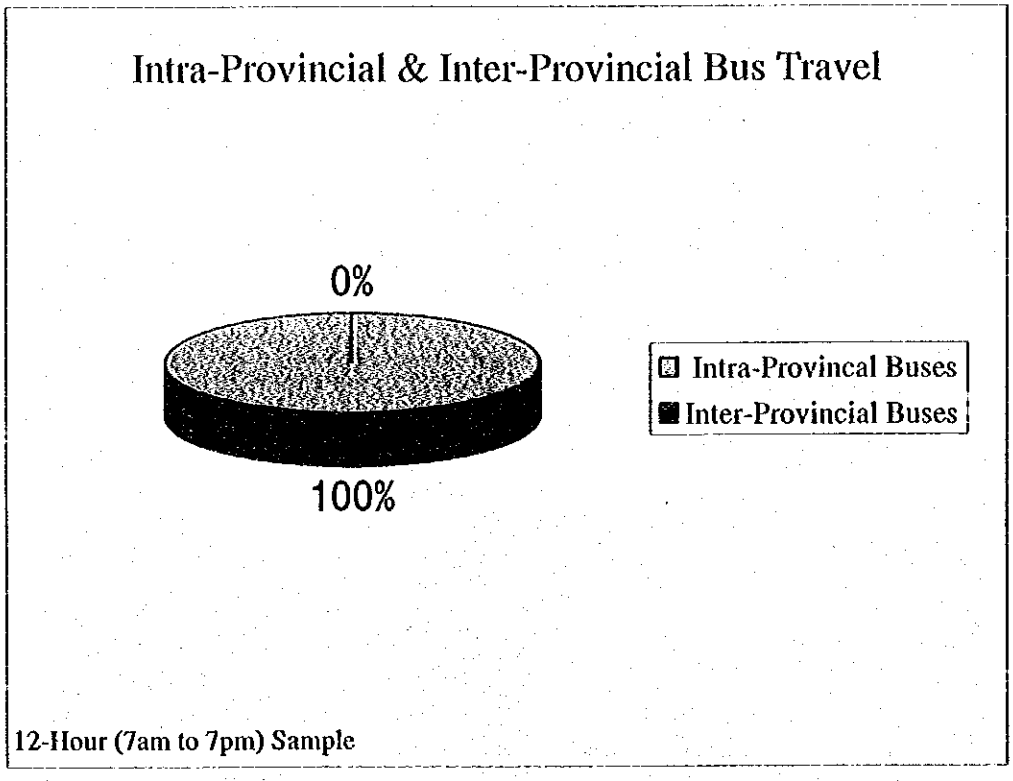
Number Of Samples : 1345
Sampling Rate : 8.0%
Avg Veh. Occupancy : 2.4

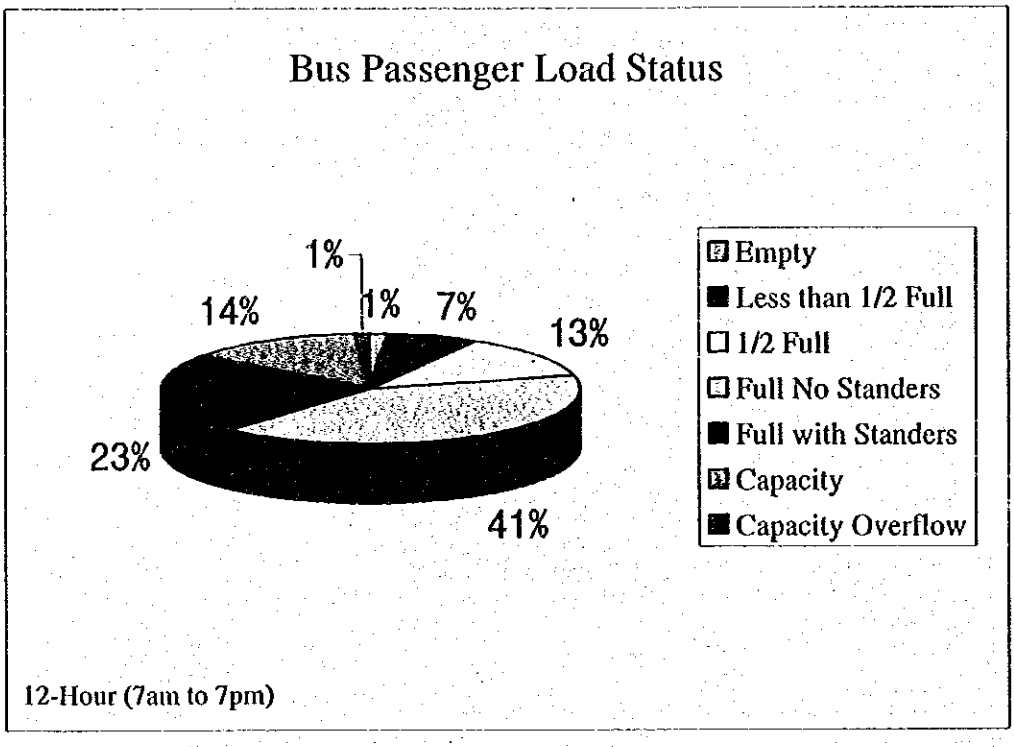
Freight Vehicle Trip Generation/Attraction



Number Of Samples : 366
Sampling Rate : 43.5%
Avg Veh. Occupancy : 2.3


Road Vehicle Composition
3%
4%
5%
15%
11%
62%
Pass. Car
3 -Wheeler
Motorcycle
Mini-Bus
Bus
Truck
12-Hour Traffic Volume = 16,795
(7am to 7pm)


Intra-Provincial & Inter-Provincial Bus Travel
0%
100%
Intra-Provincal Buses
Inter-Provincial Buses
12-Hour (7am to 7pm) Sample


Bus Passenger Load Status
1%
14%
1%
7%
13%
23%
41%
Empty
Less than 1/2 Full
1/2 Full
Full No Standers
Full with Standers
Capacity
Capacity Overflow
12-Hour (7am to 7pm)

Traffic Volume Survey Extract