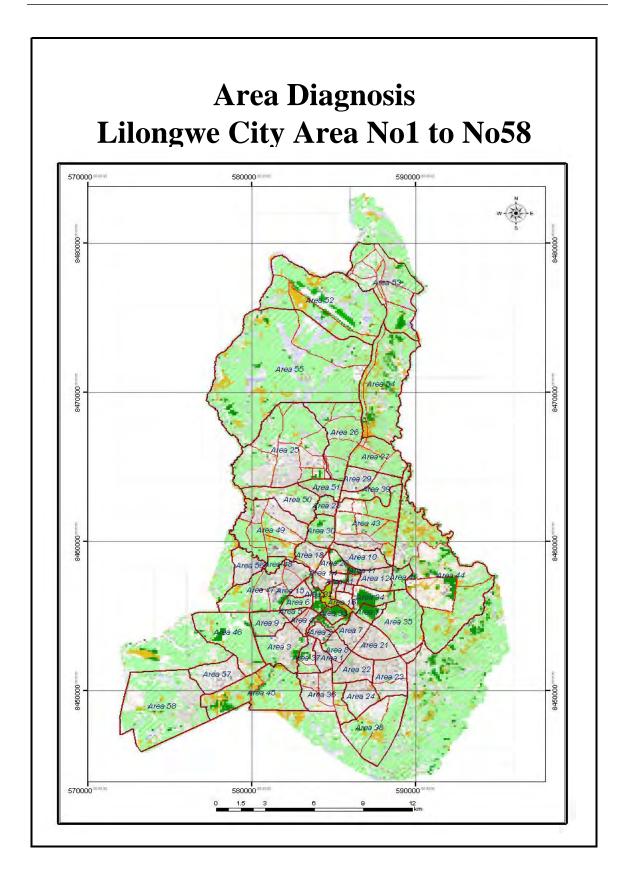
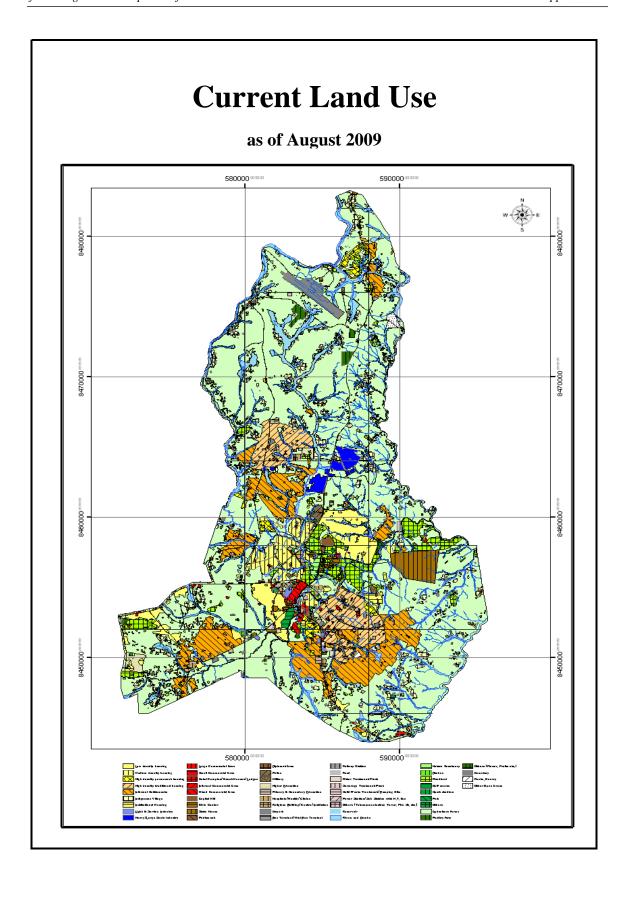


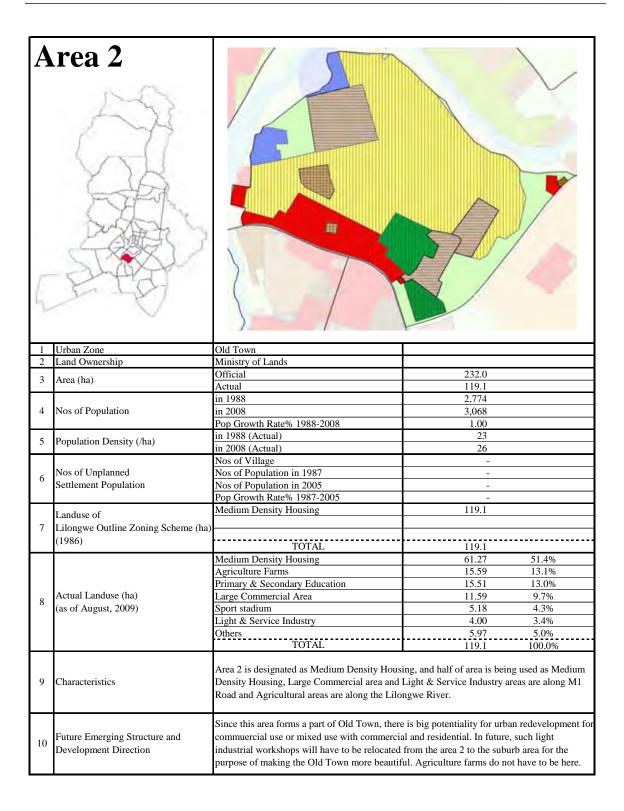
# **APPENDIX 1**

Area Diagnosis on Area 1~58 of Lilongwe City





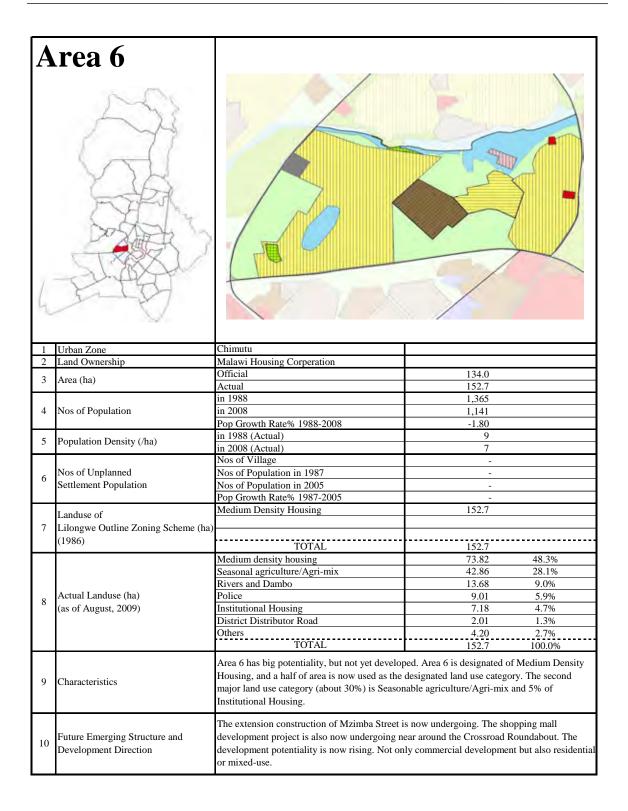
A	rea 1		
1	Urban Zone	Old Town	
2	Land Ownership	Malawi Housing Corperation	
3	Area (ha)	Official	136.0
	()	Actual	153.8
1	Name C Daniel a Com	in 1988	10,922
4	Nos of Population	in 2008	13,714
		Pop Growth Rate% 1988-2008 in 1988 (Actual)	2.30 71
5	Population Density (/ha)	in 2008 (Actual)	89
		Nos of Village	-
	Nos of Unplanned	Nos of Population in 1987	-
6	Settlement Population	Nos of Population in 2005	-
	Setuement I sputation	Pop Growth Rate% 1987-2005	-
	Landuse of	High Density Permanent Housing	153.8
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	153.8
		High Density Permanent Housing	81.02 52.7%
		Informal Settlements	12.28 8.0%
	A start Tan Law (b)	Rivers and Dambo	9.11 5.9%
8	Actual Landuse (ha)	Police	8.53 5.5%
	(as of August, 2009)	Higher Education	8.43 5.5%
		Large Commercial Area Others	7.84 5.1% 26.61 17.3%
L		TOTAL	26.61 17.3% 153.8 100.0%
9	Characteristics	Area 1 is located in Old Town. It is designated as High Density Permanent Housing according to OZS. Actually a half of the area is used as High Density Permanent Housing. As the area is located in Old Town, some parts are used as commercial and institutional. There is an encroachment of informal settlements in the southern part.	
10	Future Emerging Structure and Development Direction	The relocation of the Police Compaund is undergoing. After the relocation, the site will have big potentiality of urban redevelopment. It has possibility of renewal as misxed use of residential (multi-storied flats) and commercial developments.	



#### Area 3 Chimutu Urban Zone Land Ownership Ministry of Lands Official 626.0 Area (ha) Actual 633.6 in 1988 4.658 Nos of Population in 2008 4,558 Pop Growth Rate% 1988-2008 -0.20 in 1988 (Actual) Population Density (/ha) in 2008 (Actual) 7 Nos of Village Nos of Unplanned Nos of Population in 1987 Settlement Population Nos of Population in 2005 Pop Growth Rate% 1987-2005 Low Density Housing 633.6 Landuse of Lilongwe Outline Zoning Scheme (ha) (1986)633.6 TOTAI Low density housing 228.53 36.1% Seasonal agriculture/Agri-mix 179.06 28.3% 70.15 11.1% Golf course Actual Landuse (ha) 41.07 Civic Center 6.5% 8 (as of August, 2009) Rivers and Dambo 36.00 5.7% State House 14.15 2.2% 10.2% Others TOTAL 64.64 100.0% Once upon a time, Area 3 was British colonial town. It is designated as Low Density Housing and as of 36% of this area is now used as LDHP. The rest of areas are being used as Characteristics Agricultural farms, Golf course, and Governmental use (Civic centre and State House). Since there remains a colonial atomosphere typically in Area 3, some parts should be Future Emerging Structure and preserved as urban heritage. However, as this area is very close to the Old Town, some parts 10 Development Direction in proximity with the commericall area will be potentially converted for higer density land use. Some of government-owned lands will be used for redevelopment.

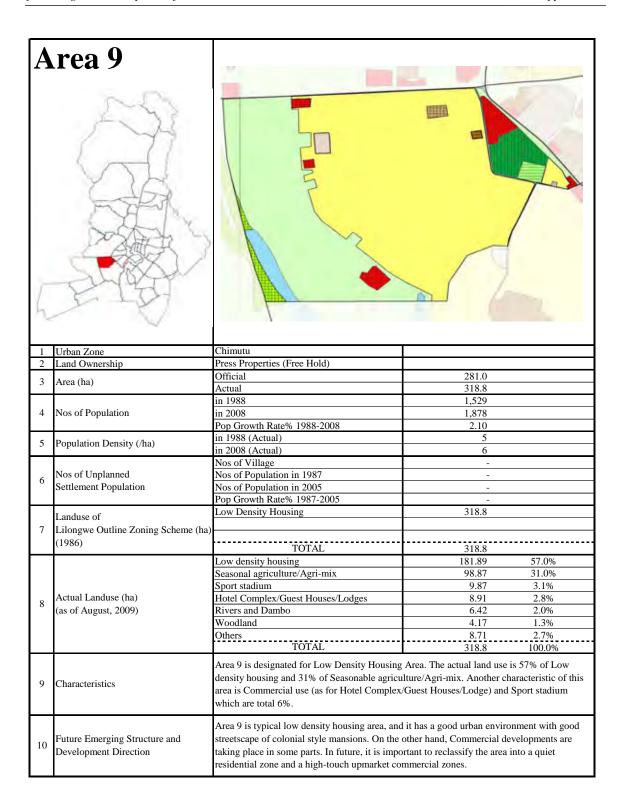
#### Area 4 Old Town Urban Zone Land Ownership Ministry of Lands 145.0 Official Area (ha) 151.9 Actual in 1988 42 Nos of Population in 2008 99 Pop Growth Rate% 1988-2008 9.00 in 1988 (Actual) 0 Population Density (/ha) in 2008 (Actual) 1 Nos of Village 226 Nos of Population in 1987 Nos of Unplanned Settlement Population Nos of Population in 2005 764 Industry 151.9 Landuse of Lilongwe Outline Zoning Scheme (ha) (1986)151.9 TOTAL 47.5% Mixed Commercial Area 72.19 Light & Service Industry 26.14 17.2% Civic Center 9.3% 14.19 Actual Landuse (ha) 11.22 7.4% Large Commercial Area 8 (as of August, 2009) Small Commercial Area 6.02 4.0% Others (Telecom Tower, etc.) 5.33 3.5% Others TOTAL\_\_\_\_ 16.82 11.1% This area is the most prospering space as commecial center. Several shopping mall development projects are undergoing. Area 4 is designated for Industry. Over 60% of actual Characteristics land is used as Commercial Area (Mixed, Large and Small) while 17% is used as Light & Service Industry. This is a typical mixed use area. In order to make the Old Town more attractive and beautiful, Future Emerging Structure and urban renewal and redevelopment will be necessary. If the light and service industries are 10 Development Direction successfully removed from here, the sites will be used for such new direction urban redevelopment.

A	rea 5		
1	Urban Zone	Old Town	
2	Land Ownership	Malawi Housing Corperation	
3	Area (ha)	Official	76.0
3	rica (iia)	Actual	72.9
		in 1988	225
4	Nos of Population	in 2008	764
		Pop Growth Rate% 1988-2008	13.00
5	Population Density (/ha)	in 1988 (Actual)	3
	• • • • • • • • • • • • • • • • • • • •	in 2008 (Actual)	10
	Nos of Unplanned	Nos of Village	- -
6	Settlement Population	Nos of Population in 1987 Nos of Population in 2005	- -
	Settlement i opulation	Pop Growth Rate% 1987-2005	-
		Medium Density Housing	72.9
	Landuse of	•	12.7
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	72.9
		Seasonal agriculture/Agri-mix	27.17 37.3%
		Primary & Secondary Education	22.32 30.6%
		Religious Building/Centre/Institutes	14.06 19.3%
8	Actual Landuse (ha)	Civic Center	5.94 8.2%
	(as of August, 2009)	District Distributor Road	1.11 1.5%
		Large Commercial Area	0.98 1.3%
		Others TOTAL	1.29 1.8% 72.9 100.0%
9	Characteristics	Area 5 is designated as Medium Density Housing. However, the largest land use of actual situation is Seasonable agriculture/Agri-mix and there is no use as the residential area.	
10	Future Emerging Structure and Development Direction	Extension of Mzimba Street is now undergoing. After completion, the development potentiality will upsurge. From the viewpoint of location, Area 5 has big potentiality of urban development. Since it is very close to commercial center in the Old Town, it will be easy to convert land use for commercial or high-rise residential land use.	



Area 7			
1	Urban Zone	Old Town	
2	Land Ownership	Lillongwe City Assembly	
3	Area (ha)	Official	239.0
	r neu (nu)	Actual	276.9
		in 1988	31,686
4	Nos of Population	in 2008	40,867
		Pop Growth Rate% 1988-2008	2.60
5	Population Density (/ha)	in 1988 (Actual)	114
	• • • • • • • • • • • • • • • • • • • •	in 2008 (Actual)	148
	Nos of Hanlanad	Nos of Village	<del>-</del>
6	Nos of Unplanned	Nos of Population in 1987	-
	Settlement Population	Nos of Population in 2005	-
		Pop Growth Rate% 1987-2005	276.0
	Landuse of	High Density Housing Traditional	276.9
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	276.9
		High density traditional housing	199.77 72.1%
		Religious Building/Centre/Institutes	19.47 7.0%
		Informal Settlements	16.53 6.0%
8	Actual Landuse (ha)	Primary & Secondary Education	9.44 3.4%
ľ	(as of August, 2009)	Small Commercial Area	7.98 2.9%
		Cemetery	6.23 2.2%
		Others TOTAL	17.52 6.3% 276.9 100.0%
9	Characteristics	Area 7 is designated as High Density Traditional Housing Area. The main actual land use is also High density traditional housing (over 70%). Informal settlements are not existing in this area according to the 2005 survey result, however, about 17 ha (6%) of this area is actually used as Informal Settlements.	
10	Future Emerging Structure and Development Direction	Unplanned developments (informal settlement encroachment) tend to take place in such areas which are closely located from the commercial centers, and are THA as well. Area 7 will suffice such conditions. It is necessary to conduct upgrading and improving works for the informal.	

A	rea 8			
1	Urban Zone	Old Town		
2	Land Ownership	Lillongwe City Assembly		
3	Area (ha)	Official	234.0	
	riica (iia)	Actual	238.6	
		in 1988	23,310	
4	Nos of Population	in 2008	20,487	
		Pop Growth Rate% 1988-2008	-1.30	
5	Population Density (/ha)	in 1988 (Actual)	98	
	• • • •	in 2008 (Actual)	86	
	Nice of City of the city	Nos of Village	-	
6	Nos of Unplanned	Nos of Population in 1987	-	
	Settlement Population	Nos of Population in 2005	-	
		Pop Growth Rate% 1987-2005	229.6	
	Landuse of	High Density Housing Traditional	238.6	
7	Lilongwe Outline Zoning Scheme (ha)			
I	(1986)	TOTAL	238.6	
		High density traditional housing	125.82	52.7%
I		Seasonal agriculture/Agri-mix	27.14	11.4%
		Primary & Secondary Education	15.65	6.6%
	Actual Landuse (ha)	Light & Service Industry	14.53	6.1%
8	(as of August, 2009)	Small Commercial Area	11.28	4.7%
I	,	Cemetery	9.73	4.1%
		Others	34.45	14.4%
		TOTAL	238.6	100.0%
9	Characteristics	Area 8 is designated as High Density Traditional Housing, and a half of the area is used as High Density Traditional Housing.  Another main land use is Seasonal agriculture/Agri-mix. It occupies about 10%, followed by Institutional (Primary & Secondary Education).		
10	Future Emerging Structure and	Since the area 8 is just adjacent to the area 1 at high. In future, It is very probable that urban rebecause of the location advantage.		



A	rea 10		
h			
1	Urban Zone	Nyama	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	403.0
	` ′	Actual	384.4
	Mara CD and a Car	in 1988	3,987
4	Nos of Population	in 2008	3,220
-		Pop Growth Rate% 1988-2008	-2.10 10
5	Population Density (/ha)	in 1988 (Actual) in 2008 (Actual)	8
		Nos of Village	8
	Nos of Unplanned	Nos of Population in 1987	
6	Settlement Population	Nos of Population in 2005	<u>-</u>
	Settlement i opulation	Pop Growth Rate% 1987-2005	<u>-</u>
		Low Density Housing	384.4
	Landuse of		JUT.T
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	384.4
		Low density housing	308.38 80.2%
		Seasonal agriculture/Agri-mix	34.39 8.9%
		Rivers and Dambo	26.71 6.9%
8	Actual Landuse (ha)	Primary & Secondary Education	6.68 1.7%
	(as of August, 2009)	Informal Settlements	5.19 1.4%
		District Distributor Road	2.45 0.6%
		Others TOTAL	0.63 0.2% 384.4 100.0%
9	Characteristics	Area 10 is just next to Capital Hill. It has good access to City Center. Area 10 is designated for Low Density Housing. 80% of the area is actually used as Low density housing. Informal settlements are existing (about 5 ha), although it occupies a very small percentage	
10	Future Emerging Structure and Development Direction	Since it has good access to government offices some parts of the areas are likely to be develop storied flat buildings) or as mixed use of communications.	ped as highdensity residential area (multi-

A	rea 11		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	43.0
	r neu (nu)	Actual	51.7
١.		in 1988	271
4	Nos of Population	in 2008	954
-		Pop Growth Rate% 1988-2008 in 1988 (Actual)	-1.20 21
5	Population Density (/ha)	in 2008 (Actual)	18
		Nos of Village	-
	Nos of Unplanned	Nos of Population in 1987	_
6	Settlement Population	Nos of Population in 2005	-
	The state of the s	Pop Growth Rate% 1987-2005	-
	Landuse of	Medium Density Housing	51.7
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	51.7
		Low density housing	33.88 65.5%
		Hotel Complex/Guest Houses/Lodges Woodland	13.20 25.5% 1.93 3.7%
	Actual Landuse (ha)	Seasonal agriculture/Agri-mix	1.93 3.7%
8	(as of August, 2009)	District Distributor Road	0.98 1.9%
	(ds of Magust, 2007)	District Distributor Road	0.50
		TOTAL	51.7 100.0%
9	Characteristics	Area 11 has very good access condition to City Centre. Area 11 is designated as Medium Density Housing. Actually, major land use of this area can be classified as low density (65.5%). Hotel Complex/Guest Houses/Lodge (25.5%) is also existing in this area. Namely, Capital Hotel. It is one of the most luxurious hotel in Lilongwe City.	
10	Future Emerging Structure and Development Directions	As this area has good physical environment, su continue to play the role of accommodating su buidings and even commercial mixed develop nature simaultaneously with such development	ch luxurious hotels, guest houses, high-rise flat ment. The importance is to preserve abundant

A	rea 12		
1	Urban Zone	Nyama	
2	Land Ownership	Ministry of Lands	
	•	Official	211.0
3	Area (ha)	Actual	271.6
		in 1988	2,629
4	Nos of Population	in 2008	2,321
	······································	Pop Growth Rate% 1988-2008	-1.20
_	Donulation Danaity (/ha)	in 1988 (Actual)	10
5	Population Density (/ha)	in 2008 (Actual)	9
		Nos of Village	-
6	Nos of Unplanned	Nos of Population in 1987	-
U	Settlement Population	Nos of Population in 2005	-
		Pop Growth Rate% 1987-2005	-
	Landuse of	Low Density Housing	271.6
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	271.6
		Low density housing	224.07 82.5%
		Woodland	29.92 11.0%
		Primary & Secondary Education	6.08 2.2%
8	Actual Landuse (ha)	Seasonal agriculture/Agri-mix	3.75 1.4%
1	(as of August, 2009)	Other Open Areas	3.58 1.3%
		Horticulture (Flower, Fruits etc.)	1.20 0.4%
		Others TOTAL	2.96 1.1% 271.6 100.0%
9	Characteristics	Area 12 is very closely located to City Centre. The area was designated as Low Density Housing, and actually over 80% of this area is used as Low Density Housing. Approx. 11% is occupied by Woodland. This area is also typical low density housing area with good atmosphere and natural environment.	
10	Future Energing Structures and Development Directions	It is of great importance to preserve good urban environment in this area. High class residential developments or low-rise upmarket shopping complex development is very likely to take place. With multi-storied flat buildings, the population density is expected to increase, keeping good environment intact.	

A	rea 13		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	170.0
3	Area (ha)	Official	153.0
		Actual in 1988	32.5 37
4	Nos of Population	in 2008	25
	1105 of 1 opulation	Pop Growth Rate% 1988-2008	-3.80
	D 1 ( D ( ( ( ) )	in 1988 (Actual)	1
5	Population Density (/ha)	in 2008 (Actual)	1
		Nos of Village	-
6	Nos of Unplanned	Nos of Population in 1987	-
U	Settlement Population	Nos of Population in 2005	-
		Pop Growth Rate% 1987-2005	-
	Landuse of	Commercial	32.5
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	32.5
		Civic Center	16.71 51.5%
		Woodland	14.83 45.7%
	Actual Landuse (ha)	District Distributor Road	0.91 2.8%
8	(as of August, 2009)		
	(as of August, 2007)		
		TOTAL	32.5 100.0%
9	Characteristics	Area 13 is located in City Centre. It is designated as Commercial area. At present, the predominant land use is Governmental office buildings (Civic Center, 52%) and another major land use is Woodland (46%).	
10	Future Emerging Structure and Development Directions.	MoLHUD is now implementing commercial infrastructure developments in Area 13.(roads, drains, water supply, electricity etc.) The urban development potentiality wii increase. It is important to keep in mind that the world-famouse business centers are equipped with big urban parks. We should also make big urban parks adjacent to office area.	

A	rea 14		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	142.0
	()	Actual	200.0
	Maria C. Daniela Cara	in 1988	861
4	Nos of Population	in 2008	1,154
-		Pop Growth Rate% 1988-2008 in 1988 (Actual)	3.00
5	Population Density (/ha)	in 2008 (Actual)	6
		Nos of Village	4
_	Nos of Unplanned	Nos of Population in 1987	1,283
6	Settlement Population	Nos of Population in 2005	4,337
	- Francisco	Pop Growth Rate% 1987-2005	-
	Landuse of	Undetermined Land	118.7 59.3%
7	Lilongwe Outline Zoning Scheme (ha)	Medium Density Housing	81.4 40.7%
′	(1986)		
	(/	TOTAL	200.0 100.0%
		Woodland	118.62 59.3%
		Medium density housing Seasonal agriculture/Agri-mix	30.24 15.1% 16.64 8.3%
	Actual Landuse (ha)	Civic Center	10.04 8.3%
8	(as of August, 2009)	District Distributor Road	4.67 2.3%
		Primary & Secondary Education	3.76 1.9%
		Others	15.12 7.6%
		TOTAL	200.0 100.0%
9	Characteristics	Area 14 is just adjacent to Capital Hill. Area 14 is designated as 40% of Medium Density Housing Area and 60% of Undetermined Area. The actual situation is 60% of Wood land and 15% of Medium density housing. The 2005 survey data shows that 4 unplanned settlementexisted therein with over 4,000 population.	
10	Future Emerging Structure and Development Directions	There remains a vast area of woodlands. Since the woodland is a very valuable land to be desiganted as undetermined. This will be future valuabloe land for urban renewal/redevelopment for City Center.	

### Area 15 Old Town Urban Zone Land Ownership Malawi Housing Corperation Official 71.0 Area (ha) 91.9 Actual in 1988 1.872 Nos of Population in 2008 1,544 Pop Growth Rate% 1988-2008 -1.90 in 1988 (Actual) 20 Population Density (/ha) in 2008 (Actual) 17 Nos of Village Nos of Unplanned Nos of Population in 1987 Settlement Population Nos of Population in 2005 Pop Growth Rate% 1987-2005 Medium Density Housing 91.9 Landuse of Lilongwe Outline Zoning Scheme (ha) (1986)TOTAL 65.55 Medium density housing 71.3% Woodland 12.63 13.7% Rivers and Dambo 6.52 7.1% Actual Landuse (ha) Primary & Secondary Education 4.38 4.8% 8 (as of August, 2009) Small Commercial Area 1.45 1.6% District Distributor Road 1.17 1.3% 0.21 91.9 0.2% 100.0% Others TOTAL\_\_\_ Area 15 has good access to both City Centre and Old Town. Area 15 is designated as Characteristics Medium Density Housing, and over 70% of this area is actually used as Medium Density Housing,. Another major land use is Woodland (14%). This area shall be kept as good residential area, preserving the woodland and water bodies Future Emerging Structure and (rivers and dambo) for environmental protection. High-density falt developments are likely to 10 Development Directions take place in view of strengthening land use density. Some small scale commercial development can be allowed for convenience of residents and surrounding people.

A	rea 16		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	
2		Official	-
3	Area (ha)	Actual	81.2
		in 1988	0
4	Nos of Population	in 2008	0
		Pop Growth Rate% 1988-2008	0.00
5	Population Density (/ha)	in 1988 (Actual)	0
·		in 2008 (Actual)	0
	NY CYY 1 1	Nos of Village	-
	Nos of Unplanned	Nos of Population in 1987	-
	Settlement Population	Nos of Population in 2005 Pop Growth Rate% 1987-2005	
		Commercial	81.2
	Landuse of		01.2
7	Lilongwe Outline Zoning Scheme (ha)		
	(1986)	TOTAL	81.2
		Woodland	62.12 76.5%
		Civic Center	12.50 15.4%
		Hotel Complex/Guest Houses/Lodges	2.80 3.4%
8	Actual Landuse (ha)	District Distributor Road	2.00 2.5%
	(as of August, 2009)	Small Commercial Area	1.82 2.2%
		TOTAL	81.2 100.0%
9	Characteristics	Area 16 is in City Center. Area 16 is designate still Green areas (Woodland, 77%), and anoth Center, 15%).	
10	Future Emerging Structure and Development Directions	It is deemed as essential to harmonize green a increase value of good office area, nature pres London has big parks or greenery in City Cen	ervation is of great importance. Tokyo, NY,

A	rea 17		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	149.0
	The (III)	Actual	151.2
	V CD 1.:	in 1988	0
4	Nos of Population	in 2008	4
		Pop Growth Rate% 1988-2008	0.00
5	Population Density (/ha)	in 1988 (Actual) in 2008 (Actual)	0
		Nos of Village	-
	Nos of Unplanned	Nos of Population in 1987	<u>-</u>
6	Settlement Population	Nos of Population in 2005	_
		Pop Growth Rate% 1987-2005	-
	Landuse of	Medium Density Housing	151.2
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	151.2
Ī		Woodland	73.99 48.9%
		Seasonal agriculture/Agri-mix	67.23 44.5%
	Astro-14 and asset (ba)	Sport stadium	4.32 2.9%
8	Actual Landuse (ha)	Rivers and Dambo Others (Telecommunication Tower, Fire St. et	4.22 2.8%
	(as of August, 2009)		
		District Distributor Road Others	0.48 0.3% 0.04 0.0%
		TOTAL	151.2 100.0%
9	Characteristics	This area is still undeveloped, although it has good location interms of access to Old Town as well as City Centre. Area 17 is designated as Medium Density Housing area. The major land use of this area is occupied by woodland (49%) and another half is Seasonal agriculture/Agrimix.	
10	Future Emerging Structure and Environment	In future, it will be developed. However, since environmental preservation is high priority. Ta area 7 (THA), infromal settlement may encroad undesirable development. Only strategic devel-	aking a look at the southern parts facing the ch. Due attention shall be paid to prevent such

A	rea 18		
1	Urban Zone	Chimutu	
2	Land Ownership	Malawi Housing Corperation, Ministry of Lan	
3	Area (ha)	Official	214.0
	(/	Actual	260.7
		in 1988	18,677
4	Nos of Population	in 2008	13,438
		Pop Growth Rate% 1988-2008	-2.30
5	Population Density (/ha)	in 1988 (Actual)	72
	• • •	in 2008 (Actual)	52
	Nos of Unplanted	Nos of Village	-
6	Nos of Unplanned	Nos of Population in 1987	<u>-</u>
	Settlement Population	Nos of Population in 2005	<del>-</del>
		Pop Growth Rate% 1987-2005 High Density Permanent Housing	238.9 91.6%
	Landuse of	•	21.8 8.4%
7	Lilongwe Outline Zoning Scheme (ha)	Open Space	21.0 0.470
	(1986)	TOTAL	260.7 100.0%
		Medium density housing	138.03 52.9%
		Seasonal agriculture/Agri-mix	72.22 27.7%
		Rivers and Dambo	17.95 6.9%
8	Actual Landuse (ha)	Religious Building/Centre/Institutes	11.93 4.6%
٥	(as of August, 2009)	Primary & Secondary Education	11.00 4.2%
		District Distributor Road	3.21 1.2%
		Others TOTAL	6.36 2.4% 260.7 100.0%
9	Characteristics	Area 18 is convenient to commute to City Centre. Area 18 is designated as 90%: High Density Permanent Housing and 10%: Open Space area. The actual situation is 50% of Medium density housing and 30% of Seasonable agriculture/Agri-mix. Another main land use is Rivers and Dambo (Open space).	
10	Future Emerging Structure and Development Directions	It is important to keep and improve good resid commercial development is likely to happen, a badly influenced.	ential environment. Probably small scale is long as residential environment quality is not

A	rea 19		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	-
	()	Actual	30.3
١,	Maria C Daniela Cara	in 1988	0
4	Nos of Population	in 2008	0
		Pop Growth Rate% 1988-2008 in 1988 (Actual)	0.00
5	Population Density (/ha)	in 2008 (Actual)	0
		Nos of Village	-
_	Nos of Unplanned	Nos of Population in 1987	-
6	Settlement Population	Nos of Population in 2005	-
	Settlement I opulation	Pop Growth Rate% 1987-2005	-
	Landuse of	Commercial	30.3
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	30.3
		Woodland	14.22 47.0%
	Actual Landuse (ha) (as of August, 2009)	Civic Center	13.55 44.8%
		District Distributor Road	0.93 3.1%
8		Small Commercial Area	0.62 2.0%
ľ		Hotel Complex/Guest Houses/Lodges	0.58 1.9%
		Large Commercial Area	0.35 1.2%
		TOTAL	30.3 100.0%
9	Characteristics	Civic Center exists in Area 19. Area 19 is designated as Commercial area. The whole built-up area of Area 19 is Civic Center. Civic Center occupies 45% of the Area 19. Alomost the same land area (47%) is occupied by woodlands. There are 16 high-rise office buildings. The greenery space is functioning as inter-access space among them.	
10	Future Emerging Structure and Development Direction	To date, this is the only one place for high-rise If the Government's intention to strengthen Lil functions is successfully achieved, this busines continue.	ongwe City by concentrating the capital city

A	rea 20		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	286.0
	( .,	Actual	130.2
	No. of December 2	in 1988	0
4	Nos of Population	in 2008	14
		Pop Growth Rate% 1988-2008 in 1988 (Actual)	0.00
5	Population Density (/ha)	in 2008 (Actual)	0
		Nos of Village	-
_	Nos of Unplanned	Nos of Population in 1987	-
6	Settlement Population	Nos of Population in 2005	-
	oction i opinicion	Pop Growth Rate% 1987-2005	-
	Landuse of	Government	130.2
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	130.2
		Woodland	52.81 40.6% 48.75 37.4%
I	Actual Landuse (ha) (as of August, 2009)	Capital Hill Seasonable agriculture/Agri-mix	22.39 17.2%
		Water Treatment Plant	2.32 1.8%
8		Higher Education	2.08 1.6%
	(as of Flagust, 2007)	District Distributor Road	1.65 1.3%
		Others	0.22 0.2%
		TOTAL	130.2 100.0%
9	Characteristics	Capital Hill exists in Area 20. Area 20 is designated as Governmental use. In fact, 37% of the area is now used as Governmental use (Capital Hill). The rest of the land is mostly Woodland (40%) and Seasonal agriculture/Agri-mix (17%).	
10	Future Emerging Structure and Development Direction	There are proposals to build additional offices the new offices to be relocated from the other the promissing site for the new comer government	cities to Lilongwe City. Area 20 is now one of

Area 21			THE STATE OF THE S
h			
1	Urban Zone	Old Town	
2	Land Ownership	Lillongwe City Assembly	
3	Area (ha)	Official	363.0
Ľ.		Actual	408.2
4	Nos of Population	in 1988 in 2008	35,314 44,965
4	ivos of Population	Pop Growth Rate% 1988-2008	2.40
	D 1 1 D 1 (1)	in 1988 (Actual)	87
5	Population Density (/ha)	in 2008 (Actual)	110
		Nos of Village	-
6	Nos of Unplanned	Nos of Population in 1987	-
0	Settlement Population	Nos of Population in 2005	-
		Pop Growth Rate% 1987-2005	-
	Landuse of	High Density Housing Traditional	408.2
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	408.2
		High density traditional housing	296.61 72.7%
		High density permanent housing	42.06 10.3%
	Actual Landuse (ha)	Primary & Secondary Education	17.19 4.2%
8		Cemetery	11.78 2.9%
Ŭ	(as of August, 2009)	Informal Settlements	11.65 2.9%
		Religious Building/Centre/Institutes	9.75 2.4%
		Others TOTAL	19.16 4.7% 408.2 100.0%
9	Characteristics	Area 21 is designated as High Density Housing Traditional. As a matter of fact, over 70% of the area is used as THA. High density permanent housing area is also existing (10%). Informal Settlements have recently begun to encroach in this area.	
10	Development Needs & Plan	There is a strong risk that informal sub-divisio because Area 21 is mostly THA, as well as bec Old Town and City Centre. The improvement will be in strong demand.	

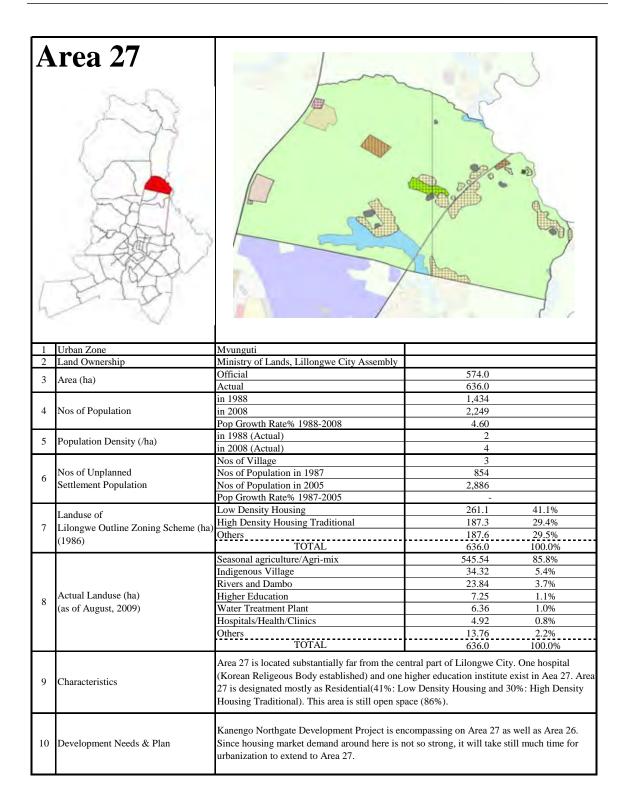
A	rea 22		
1	Urban Zone	Ngwenya	
2	Land Ownership	Lillongwe City Assembly	
3	Area (ha)	Official	369.0
3	Alea (lia)	Actual	373.6
		in 1988	19,622
4	Nos of Population	in 2008	29,390
		Pop Growth Rate% 1988-2008	4.10
5	Population Density (/ha)	in 1988 (Actual)	53
	F	in 2008 (Actual)	79
	NY CYY 1 1	Nos of Village	-
6	Nos of Unplanned	Nos of Population in 1987	-
	Settlement Population	Nos of Population in 2005	-
		Pop Growth Rate% 1987-2005	- 272.6
	Landuse of	High Density Housing Traditional	373.6
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	373.6
		High density traditional housing	152.91 40.9%
		Informal Settlements	146.73 39.3%
	Actual Landuse (ha)	Primary & Secondary Education	15.98 4.3%
8		Rivers and Dambo	15.10 4.0%
	(as of August, 2009)	Higher Education	10.31 2.8%
Ī		Light & Service Industry	8.24 2.2%
		Others TOTAL	24.37 6.5% 373.6 100.0%
9	Characteristics	Area 22 is THA. Area 22 is designated as High Density Housing Traditional. The current situation is that a half is formal THA and another half has already become informal by informal sub-division.	
10	Future Emerging Structure and Development Direction	The encroachment of informal multi-subdivion has substantially taken place in Area 22. The upgrading and improvement for the bad living conditions in such multi-subdivision in one plot will be despacrately needed.	

A	area 23		
1	Urban Zone	Ngwenya	
2	Land Ownership	Lillongwe City Assembly	
3	Area (ha)	Official	401.0
	()	Actual	502.6
	av on the	in 1988	33,664
4	Nos of Population	in 2008	45,779
		Pop Growth Rate% 1988-2008	3.10
5	Population Density (/ha)	in 1988 (Actual)	67
	· ·	in 2008 (Actual) Nos of Village	91 2
	Nos of Unplanned	Nos of Population in 1987	799
6	Settlement Population	Nos of Population in 2005	2,701
	Settlement i opulation	Pop Growth Rate% 1987-2005	2,701
	Landusa of	High Density Housing Traditional	502.6
_	Landuse of		302.0
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	502.6
		Informal Settlements	258.13 51.4%
		High density traditional housing	173.59 34.5%
	Actual Landuse (ha)	Rivers and Dambo	35.16 7.0%
8		Other Open Areas	8.54 1.7%
Ŭ	(as of August, 2009)	Higher Education	7.71 1.5%
		Primary & Secondary Education	6.60 1.3%
		Others TOTAL	12.87 2.6% 502.6 100.0%
9	Characteristics	Informal settlements are rampantly growing Area 23. Area 23 is designated as High Density Housing Traditional. As in the case of the other THA area, multi-subdivision is taking place massively. Informal Settlement currently occupies 51% of the land area.	
10	Future Emerging Structure and Development Direction	As is the case of the other THA, how to prevent rampant growth of informal multi- subdivision is very important. Strenuous effort should be made in order to upgrade and improve the living condition of such informally multi-subdivided plots.	

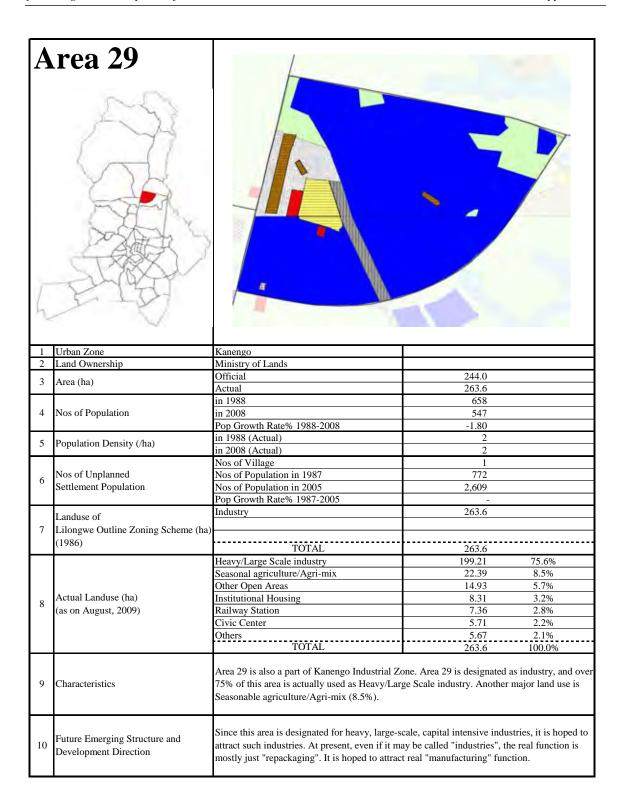
## Area 24 Urban Zone Ngwenya Land Ownership Lillongwe City Assembly 230.0 Official Area (ha) Actual 380.3 in 1988 13,602 Nos of Population in 2008 23,944 Pop Growth Rate% 1988-2008 5.80 in 1988 (Actual) Population Density (/ha) in 2008 (Actual) 63 Nos of Village Nos of Unplanned Nos of Population in 1987 2,474 Settlement Population Nos of Population in 2005 8,362 Pop Growth Rate% 1987-2005 380.3 High Density Housing Traditional Lilongwe Outline Zoning Scheme (ha) TOTAL (1986)380.3 Informal Settlements 251.47 66.1% High density traditional housing 79.31 20.9% 22.90 Rivers and Dambo 6.0% Actual Landuse (ha) Rocks, Quarry 12.92 3.4% (as of August, 2009) 1.4% Cemetery 5.16 Small Commercial Area 3.61 0.9% 1.3% 4.90 The serious issue of Area 24 is also informal settlements. Area 24 is designated as High Density Housing Traditional. Since several houses have been built in one land plot, the living Characteristics condition is getting worse due to such multi-subdivision. Informal settlements currently occupies 67% of the land of the area. Future Emerging Structure and The urban issue of Area 24 is also rampant growth of informal settlements. The improvement 10 Development Direction and upgrading of the informal settlements will be first priority issue.

#### Area 25 Mvunguti Urban Zone Land Ownership Lillongwe City Assembly, Malawi Housing Corperation 2,274.0 Official Area (ha) 2,414.6 Actual in 1988 39.132 Nos of Population in 2008 64,650 Pop Growth Rate% 1988-2008 5.10 in 1988 (Actual) 16 Population Density (/ha) in 2008 (Actual) 27 Nos of Village 3.136 Nos of Unplanned Nos of Population in 1987 Settlement Population Nos of Population in 2005 10,599 Pop Growth Rate% 1987-High Density Housing Traditional 2,114.2 87.6% Landuse of Medium Density Housing 151.3 6.3% Lilongwe Outline Zoning Scheme (ha) Others TOTAL 149.1 6.2% 100.0% (1986)2,414.6 Seasonal agriculture/Agri-mix 1,072.61 44.4% High density traditional housing 711.34 29.5% Rivers and Dambo 187.04 7.7% Actual Landuse (ha) 110.49 Indigenous Village 4.6% 8 Informal Settlements (as of August, 2009) 102.04 4.2% Woodland 59.72 2.5% Others TOTAL 7.1% 100.0% 171.18 2.414.4 Area 25 is located in the north part. It is designated as Residential Area (87% of High Density Characteristics Housing Traditional and 6% of Medium Density Housing). Therefore, the informal encroachment has not extended so much. The urbanization axis for the north direction has not been extended so much. However, it will Future Emerging Structure and 10 be improtant from now on to take an alert attitude for the informal encroachment, because the Development Direction Area 25 includes a vast area of THA.

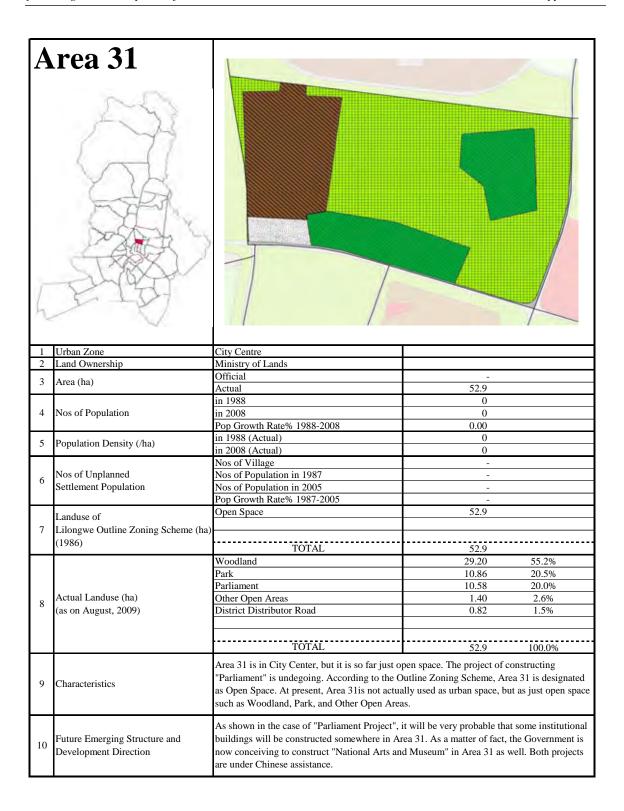
A	rea 26		
1	Urban Zone	Mvunguti	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	1,174.0
	. Hett (Ma)	Actual	1,066.7
		in 1988	3,892
4	Nos of Population	in 2008	4,799
		Pop Growth Rate% 1988-2008	2.10
5	Population Density (/ha)	in 1988 (Actual)	4
		in 2008 (Actual)	4
	Nos of Unplanned	Nos of Village	5
6	Settlement Population	Nos of Population in 1987	2,726
	Settlement Population	Nos of Population in 2005 Pop Growth Rate% 1987-2005	9,247
		Medium Density Housing	530.2 49.7%
	Landuse of	Undetermined Land	364.1 34.1%
7	Lilongwe Outline Zoning Scheme (ha)	Others	172.4 16.2%
	(1986)	TOTAL	1,066.7 100.0%
		Seasonal agriculture/Agri-mix	833.59 78.1%
		Rivers and Dambo	125.33 11.7%
	Actual Landuse (ha) (as of August, 2009)	Indigenous Village	87.84 8.2%
8		Cemetery	6.86 0.6%
0		Primary & Secondary Education	6.14 0.6%
		District Distributor Road	3.40 0.3%
		Others TOTAL	3.53 0.3% 1,066.7 100.0%
9	Characteristics	Area 26 is still undeveloped area. Urbanization has not taken place in Area 26 yet. Area 26 is designated as 50% of Medium Density Housing area and 34% of Undetermined Land. However, taking a look at the actual situation, Seasonal agriculture/Agri-mix still occupies about 80% of this area. Indigenous villages occupy 8%.	
10	Future Emerging Structure and Development Direction	A large-scale residential development (Kanengo Northgate) has been attempted since several years ago. Due to financial procurement problems, however, no actual development activities have not taken place here. As this area is located a little bit far from the central part, housing market demand is weak.	



A	rea 28		
1	Urban Zone	Kanengo	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	252.0
	Aica (lia)	Actual	148.7
١.		in 1988	321
4	Nos of Population	in 2008	48
		Pop Growth Rate% 1988-2008	-9.00 2
5	Population Density (/ha)	in 1988 (Actual) in 2008 (Actual)	4
		Nos of Village	1
	Nos of Unplanned	Nos of Population in 1987	6
6	Settlement Population	Nos of Population in 2005	20
	Settlement i opulation	Pop Growth Rate% 1987-2005	-
	Landuse of	Industry	148.7
7	Lilongwe Outline Zoning Scheme (ha)		
l '	(1986)		
	(1700)	TOTAL	148.7
		Heavy/Large Scale industry	107.87 72.5%
	Actual Landuse (ha)	Seasonal agriculture/Agri-mix	33.94 22.8%
		Rivers and Dambo	3.83 2.6%
8		Small Commercial Area District Distributor Road	1.52 1.0% 1.48 1.0%
	(as of August, 2009)	Informal Settlements	0.07 0.0%
		informal Settlements	0.07
		TOTAL	148.7 100.0%
9	Characteristics	Area 28 is place for industrial location. Area 28 is designated as Industry. Over 70% of this area is actually used as Heavy/Large Scale industry at present. Another major land use is Seasonal agriculture/Agri-mix (23%).	
10	Future Emerging Structure and Development Direction	Since this area is designated for heavy, large-sa attract such industries. At present, even if it ma mostly just "repackaging". It is hoped to attract	ay be called "industries", the real function is



A	rea 30		
1	Urban Zone	Nyama	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	297.0
	rica (na)	Actual	320.7
		in 1988	2,914
4	Nos of Population	in 2008	2,344
		Pop Growth Rate% 1988-2008	-2.20
5	Population Density (/ha)	in 1988 (Actual)	9
	1 3 , ,	in 2008 (Actual)	7
	N CYL L 1	Nos of Village	-
	Nos of Unplanned	Nos of Population in 1987	-
	Settlement Population	Nos of Population in 2005	<u>-</u> -
-		Pop Growth Rate% 1987-2005 Institutional (Army, Police, Hospital)	320.7
	Landuse of	ilistitutional (Army, Fonce, Hospital)	320.7
7	Lilongwe Outline Zoning Scheme (ha)		
	(1986)	TOTAL	320.7
		Seasonal agriculture/Agri-mix	190.40 59.4%
		Police	65.23 20.3%
		Rivers and Dambo	17.27 5.4%
8	Actual Landuse (ha) (as of August, 2009)	Woodland	17.13 5.3%
0		Institutional Housing	16.15 5.0%
		Cemetery	8.63 2.7%
		Others	5.85 1.8%
		TOTAL	320.7 100.0%
9	Characteristics	Police Headquarter is located in Area 30. It is designated as Institutional (Army, Police, Hospital). 25% of the land area is used as such institutional by approx. 25%. Police Headquarter is the largest among them 820% of the total land area). As a matter of fact, the most dominant land use is Seasonal agriculture/Agri-mix.	
10	Future Emerging Structure and Development Direction	Since the northern adjacent area is Kanengo Industrial area, it is hoped to keep the open space(Seasonal agriculture/Agri-mix) for the purpose of buffer zone to the industrial zone. The land facing the M1 might be developed as such institutional land use.	

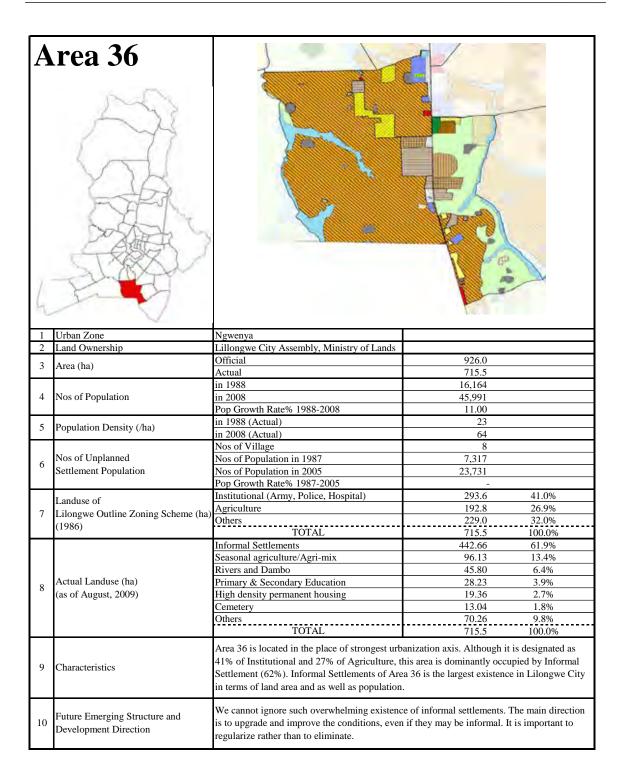


A	rea 32		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	128.0
J	Theu (hu)	Actual	135.1
	N 6D 13	in 1988	247
4	Nos of Population	in 2008	350
		Pop Growth Rate% 1988-2008 in 1988 (Actual)	3.50
5	Population Density (/ha)	in 2008 (Actual)	3
		Nos of Village	-
_	Nos of Unplanned	Nos of Population in 1987	-
	Settlement Population	Nos of Population in 2005	-
		Pop Growth Rate% 1987-2005	-
7	Landuse of Lilongwe Outline Zoning Scheme (ha)	Institutional (Army, Police, Hospital)	135.1
/	(1986)	TOTAL	135.1
		Woodland	70.89 52.5%
		Religious Building/Centre/Institutes	27.73 20.5%
	Astro-11 on loss (Le	Nature Sanctuary	13.71 10.1%
8	Actual Landuse (ha)	Seasonal agriculture/Agri-mix	6.17 4.6%
	(as on August, 2009)	Rivers and Dambo Hotel Complex/Guest Houses/Lodges	3.85 2.8% 3.71 2.7%
		Others	9.07 6.7%
		TOTAL	135.1 100.0%
9	Characteristics	Area 32 is designated as Institutional (Army, Police, Hospital); however, 70% of the area is still undeveloped and kept as Woodland/Nature Sanctuary, then 20% is used as Institutional.	
10	Future Emerging Structure and Development Direction	Under the President's initiative, the Governmer Commercial Center in Area 32. If this project is this area will be totally changed. Office buildin lodges may be constructed. It is hoped to be mi	s implemented successfully, the land use of gs, retail commercial buildings, hotels and

A	rea 33			
1	Urban Zone	City Centre		
2	Land Ownership	Ministry of Lands Official	346.0	
3	Area (ha)	Actual	131.7	
		in 1988	1,938	
4	Nos of Population	in 2008	2,545	
		Pop Growth Rate% 1988-2008	2.80	
5	Population Density (/ha)	in 1988 (Actual) in 2008 (Actual)	15 19	
		Nos of Village	-	
_	Nos of Unplanned	Nos of Population in 1987	-	
6	Settlement Population	Nos of Population in 2005	-	
	•	Pop Growth Rate% 1987-2005	-	
	Landuse of	Institutional (Army, Police, Hospital)	131.7	
7	Lilongwe Outline Zoning			
	Scheme (ha) (1986)	TOTAL	131.7	
	`	Seasonal agriculture/Agri-mix	83.35 63.3%	
		Institutional Housing	16.74 12.7%	
	l	Hospitals/Health/Clinics	14.74 11.2%	
8	Actual Landuse (ha)	Higher Education	10.70 8.1%	
١Ŭ	(as on August, 2009)	Woodland	2.59 2.0%	
		Nature Sanctuary	1.56 1.2% 2.05 1.6%	
		Others TOTAL	2.05 1.6% 131.7 100.0%	
		Area 33 is in City Center. Area 33 is o		
		Police, Hospital). While one third of t	-	
9	Characteristics		· ·	
		Institutional (Hospital, etc.), two third is still open space(Seasonal		
<u> </u>		agriculture/Agri-mix).		
		2 4	amely, College of Medicine/ Kamuzu	
10	Development Needs & Plan	College of Nursing/ School of Health	Science. The construction work has	
10	Development Needs & Fian	already commenced. In line with the d	levelopment trend, such institutional	
		building constructions are likely to tal	-	
		10 and 11 to 11 to 11 to 11 to 11	io pinovi	

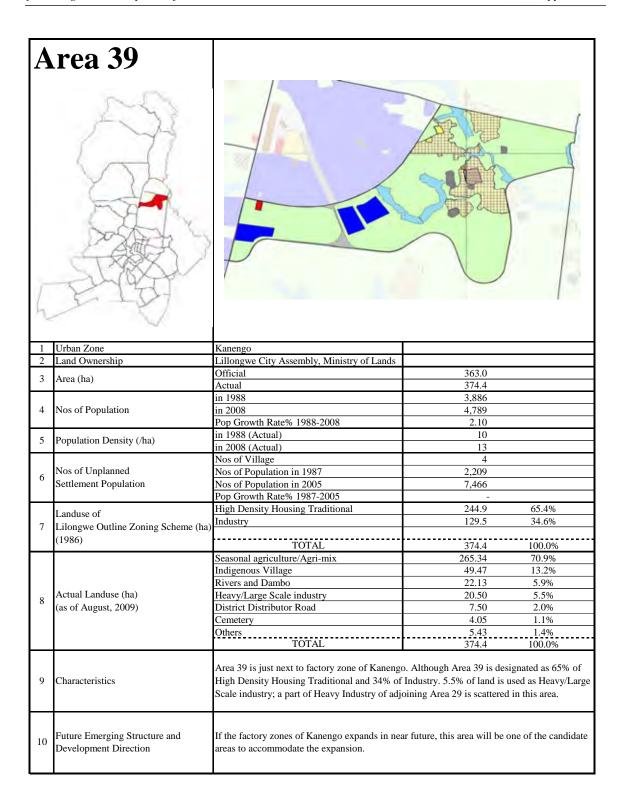
A	rea 34		
1	Urban Zone	City Centre	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	207.0
3	Alea (lia)	Actual	542.1
		in 1988	0
4	Nos of Population	in 2008	42
		Pop Growth Rate% 1988-2008	0.00
5	Population Density (/ha)	in 1988 (Actual)	0
	<u> </u>	in 2008 (Actual)	0
	Nos of Unplanned	Nos of Village Nos of Population in 1987	-
6	Settlement Population	Nos of Population in 2005	-
	Settlement i opulation	Pop Growth Rate% 1987-2005	<u>-</u>
	Y 1 C	Open Space	542.1
_	Landuse of	- F F	- 1
7	Lilongwe Outline Zoning Scheme (ha) (1986)	mon II	
	<u>'</u>	TOTAL Woodland	542.1 223.32 41.2%
		Seasonal agriculture/Agri-mix	131.25 24.2%
		Nature Sanctuary	93.89 17.3%
	Actual Landuse (ha)	Rivers and Dambo	47.60 8.8%
8	(as of August, 2009)	Light & Service Industry	9.46 1.7%
		Horticulture (Flower, Fruits etc.)	8.79 1.6%
		Others TOTAL	27.70 5.1% 542.0 100.0%
9	Characteristics	Area 34 is designated as Open Space including and Dambo, and Woodland.	protected area of Nature Sanctuary, Rivers
10	Future Emerging Structure and Development Direction	This area looks like existing as Green Edge to p the surrounding built-up areas. As this open spa hoped to continue the role of such Green Edge.	ace is including Nature Sanctuary, this area is

A	rea 35		
1	Urban Zone	Tsabango	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	1,203.0
	Teu (iiu)	Actual	856.7
١,	y cp i.:	in 1988	5,176
4	Nos of Population	in 2008	7,455
		Pop Growth Rate% 1988-2008	3.70
5	Population Density (/ha)	in 1988 (Actual) in 2008 (Actual)	6 9
		Nos of Village	9
	Nos of Unplanned	Nos of Population in 1987	<u>-</u>
6	Settlement Population	Nos of Population in 2005	-
		Pop Growth Rate% 1987-2005	-
	Landuse of	Institutional (Army, Police, Hospital)	856.7
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	856.7
		Seasonal agriculture/Agri-mix	569.14 66.4%
		Institutional Housing	91.24 10.7% 70.36 8.2%
	Actual Landuse (ha)	Informal Settlements Rivers and Dambo	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8	(as of August, 2009)	Military	54.09 6.3% 28.33 3.3%
	(as of August, 2007)	Woodland	25.14 2.9%
		Others	18.35 2.1%
		TOTAL	856.7 100.0%
9	Characteristics	Area 35 is designated as Institutional (Army, Police, Hospital). Except some Institutional Housing and Military area, however, approx. 70% of the lands are still currently undeveloped and kept as Seasonable agriculture/Agri-mix or woodlands. Informal Settlement has begun to encroach into the southern part of this area.	
10	Future Emerging Structure and Development Direction	This area has relatively close to Old Town and located just next to THA. It is highly risky that informal encroachment will be accelerated furthermore. Thanks to the existance of State House in the west side from this area, monitoring and development control activities shall be done.	



A	area 37			
1	Urban Zone	Old Town		
2	Land Ownership	Ministry of Lands		
3	Area (ha)	Official	193.0	
3	Alea (lia)	Actual	222.9	
		in 1988	0	
4	Nos of Population	in 2008	567	
		Pop Growth Rate% 1988-2008	-	
5	Population Density (/ha)	in 1988 (Actual)	0	
3	ropulation Density (/lia)	in 2008 (Actual)	3	
		Nos of Village	2	
6	Nos of Unplanned	Nos of Population in 1987	1,414	
0	Settlement Population	Nos of Population in 2005	4,779	
	_	Pop Growth Rate% 1987-2005	-	
	Landuse of	Undetermined Land	83.7	37.5%
7	Lilongwe Outline Zoning Scheme (ha)	Industry	139.2	62.5%
<b>'</b>	(1986)			
	(1700)	TOTAL	222.9	100.0%
		Seasonal agriculture/Agri-mix	83.90	37.6%
		Mixed Commercial Area	45.02	20.2%
		Woodland	32.71	14.7%
8	Actual Landuse (ha)	Rivers and Dambo	14.67	6.6%
	(as of August, 2009)	Institutional Housing	10.71	4.8%
		Poultry farm/Dairy farm	9.10	4.1%
		Others TOTAL	26.74 222.9	12.0% 100.0%
9	Characteristics	Area 37 includes various land use category. It is designated as 63% of Industry area and 38% of Undetermined Land. The actual land use is really various: Mixed Commercial, Institutional Housing, and Poultry farm/Dairy farm, etc.		
10	Future Emerging Structure and Development Direction	Since Area 37 has good access location to Old Town, it will have various land use possibilities. It is in very close distance with bus terminal andcentral market. Mixed commercial developments are now undergoing by Malawi Housing's effort. (commercial/light industry/residence).		

Area 38			
h	Urban Zone	Ngwenya	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	892.0
3	rica (na)	Actual	1,077.4
		in 1988	2,591
4	Nos of Population	in 2008	9,867
		Pop Growth Rate% 1988-2008	14.30 2
5	Population Density (/ha)	in 1988 (Actual) in 2008 (Actual)	9
		Nos of Village	7
	Nos of Unplanned	Nos of Population in 1987	2,019
6	Settlement Population	Nos of Population in 2005	6,825
		Pop Growth Rate% 1987-2005	-
	Landuse of	Industry	485.9 45.1%
7	Lilongwe Outline Zoning Scheme (ha)	Undetermined Land	591.5 54.9%
l ′	(1986)		
	(1700)	TOTAL	1,077.4 100.0%
		Seasonal agriculture/Agri-mix	672.09 62.4%
		Informal Settlements	228.16 21.2%
	Actual Landuse (ha)	Rivers and Dambo Indigenous Village	48.90 4.5% 47.13 4.4%
8	(as of August, 2009)	Low density housing	45.05 4.2%
	(as of August, 2007)	Woodland	7.48 0.7%
		Others	28.50 2.6%
		TOTAL	1,077.3 100.0%
9	Characteristics	Population is growing rapidly in Area 38. It m settlements. Area 38 is designated as 45% of Ir The southern part of is still kept as Seasonable northern part is occupied by Informal Settleme	eans rapid encroachment of infromal ndustry area and 55% of Undetermined Land. agriculture/Agri-mix (62%) use while the
10	Future Emerging Structure and Development Direction	Since rapid urbanization (informal encroachme situation is likely to happen. Development con Simultaneously, the improvement and upgradin dumping sites in Area 38. Consideration about	trol monitoring activities are important here. ng effort will be needed. In addition, there is



A	rea 40			
1	Urban Zone	City Centre		
2	Land Ownership	Ministry of Lands		
3	Area (ha)	Official	-	
	Theu (mu)	Actual	42.3	
		in 1988	0	
4	Nos of Population	in 2008	8	
		Pop Growth Rate% 1988-2008	0.00	
5	Population Density (/ha)	in 1988 (Actual)	0	
		in 2008 (Actual) Nos of Village	-	_
	Nos of Unplanned	Nos of Population in 1987	<u> </u>	
6	Settlement Population	Nos of Population in 2005	<u> </u>	
	Settlement i opulation	Pop Growth Rate% 1987-2005	<u> </u>	
	* 1 0	Commercial	42.3	$\neg$
_	Landuse of			$\dashv$
7	Lilongwe Outline Zoning Scheme (ha)			
	(1986)	TOTAL	42.3	
		Woodland	29.79 70.4%	
		Civic Center	6.46 15.3%	
		Diplomat Area	4.25 10.1%	
8	Actual Landuse (ha)	District Distributor Road	1.63 3.9%	_
	(as of August, 2009)	Large Commercial Area	0.11 0.3%	_
		Small Commercial Area	0.06 0.1%	
		TOTAL	42.3 100.0%	
9	Characteristics	Area 40 is located in City Center. Area 40 is d actual situation is, however that it is still unde A small percentage is used for Government (C	veloped. 70 % of the land is kept as woodland	
10	Land Ownership	Provided that the potentiality of urban develop good place for development expansion of City agencies or government offices are already loc mixed use development are likely to take place	Center. Since embassies, international ated, upmarket residential development or	

A	rea 41		
1	Urban Zone	Tsabango	
2	Land Ownership	Ministry of Lands	100.0
3	Area (ha)	Official	188.0
		Actual in 1988	156.6 0
4	Nos of Population	in 2008	0
l .	1105 of 1 opulation	Pop Growth Rate% 1988-2008	0.00
	D 1 (1 D 1 (4 )	in 1988 (Actual)	0
5	Population Density (/ha)	in 2008 (Actual)	0
		Nos of Village	1
6	Nos of Unplanned	Nos of Population in 1987	1,886
U	Settlement Population	Nos of Population in 2005	6,375
		Pop Growth Rate% 1987-2005	-
	Landuse of	Open Space	156.6
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	156.6
		Seasonal agriculture/Agri-mix	76.22 48.7%
		Medium density housing	27.53 17.6%
	A . 17 1 (1)	Rivers and Dambo	25.23 16.1%
8	Actual Landuse (ha)	Horticulture (Flower, Fruits etc.)	19.43 12.4%
	(as of August, 2009)	Woodland	4.52 2.9%
		Low density housing	3.64 2.3%
		TOTAL	156.6 100.0%
9	Characteristics	The location is just next to State House. Area 41 is designated as Open Space. The current situation of land use is also mostly agricultural or woodlands. A half of the area (49%) is being used as Seasonable agriculture/Agri-mix. The built-up housing area occupies around 30%.	
10	Future Emerging Structure and Development Direction	Since this area is very close to State House, the that this area is unlikely to be developed so musettlements, because of the strict security check open space.	uch or to be encroached by informal

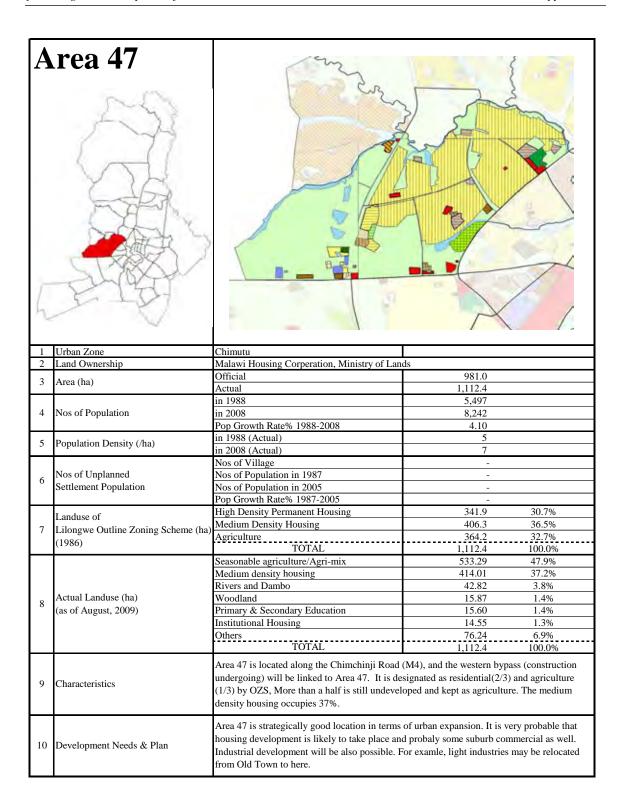
A	rea 42		
1	Urban Zone	City Centre	ı
2	Land Ownership	Ministry of Lands	
	·	Official	_
3	Area (ha)	Actual	30.9
		in 1988	0
4	Nos of Population	in 2008	13
	r	Pop Growth Rate% 1988-2008	0.00
_	D 1 ( D 1 ( // )	in 1988 (Actual)	0
5	Population Density (/ha)	in 2008 (Actual)	0
		Nos of Village	-
6	Nos of Unplanned	Nos of Population in 1987	-
0	Settlement Population	Nos of Population in 2005	-
	_	Pop Growth Rate% 1987-2005	-
	Landuse of	Government	30.9
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	30.9
		Woodland	27.56 89.1%
		Low density housing	3.08 10.0%
	4 . 17 . 1 . 4	District Distributor Road	0.27 0.9%
8	Actual Landuse (ha)	Seasonable agriculture/Agri-mix	0.01 0.0%
	(as of August, 2009)		
		TOTAL	30.9 100.0%
9	Characteristics	Area 42 is very closely located to Civic Center 42 is designated as Government land use. The space (mostly Woodland). Only 10% is used f	actual situation of this area is undeveloped
10	Future Emerging Structure and Development Direction	In future, it is probable that Government fuction of the candidate area for the expansion of Civiproposed that a new offic building of UNDP vadditional developments is likely to take place	vill be constructed in Area 42. As such, new

Area 43				
1	Urban Zone	Nyama		
2	Land Ownership	Ministry of Lands, Malawi Housing Corperation		
3	Area (ha)	Official	1,071.0	
-		Actual	1,349.1	
4	Nos of Population	in 1988 in 2008	1,651 2,290	
4	Nos of Population	Pop Growth Rate% 1988-2008	3.30	
		in 1988 (Actual)	3.30	
5	Population Density (/ha)	in 2008 (Actual)	2	
		Nos of Village		
	Nos of Unplanned	Nos of Population in 1987	-	
6	Settlement Population	Nos of Population in 2005	-	
	•	Pop Growth Rate% 1987-2005	-	
	Landuse of	Low Density Housing	701.6 52.0%	
7	Lilongwe Outline Zoning Scheme (ha)	Medium Density Housing	458.5 34.0%	
'	(1986)	Institutional (Army, Police, Hospital)	189.0 14.0%	
	()	TOTAL	1,349.1 100.0%	
		Seasonable agriculture/Agri-mix	970.43 71.9%	
		Low density housing	210.62 15.6%	
	Actual Landuse (ha)	Rivers and Dambo	60.65 4.5%	
8	` '	Informal Settlements Indigenous Village	25.47 1.9% 22.19 1.6%	
	(as of August, 2009)	Primary & Secondary Education	15.32 1.1%	
I		Others	44.41 3.3%	
		TOTAL	1,349.1 100.0%	
9	Characteristics	Area 43 is located to the north from City Center. The area is designated as residential (52% of Low Density Housing and 34% of Medium Density Housing, and the rest of institutional land use). However, the actual situation is that most of the land is undeveloped and kept as seasonal agricuture/agri-mix.		
10	Future Emerging Structure and Developemnt Direction	As urban expansion demand is not so strong in 43 will be suitable for orderly quiet residential developed for mixed use or small commercial Housing has a new housing project here(43/4)	development. Some parts may be probably development. As a matter of fact, Malawi	

A	rea 44		
1	Urban Zone	Tsabango	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	3,431.0
3	Area (na)	Actual	3,310.6
		in 1988	13,203
4	Nos of Population	in 2008	26,274
		Pop Growth Rate% 1988-2008	7.10
5	Population Density (/ha)	in 1988 (Actual)	4
		in 2008 (Actual)	8 10
	Nos of Unplanned	Nos of Village Nos of Population in 1987	8,115
6	Settlement Population	Nos of Population in 2005	27,395
	Settlement i opulation	Pop Growth Rate% 1987-2005	21,393
		State House	558.5 16.9%
_	Landuse of	Forestry	1,925.8 58.2%
7	Lilongwe Outline Zoning Scheme (ha)	Agriculture	826.3 25.0%
	(1986)	TOTAL	3,310.6 100.0%
		Seasonal agriculture/Agri-mix	1,880.44 56.8%
		State House	555.06 16.8%
		Woodland	384.91 11.6%
8	Actual Landuse (ha)	Informal Settlements	190.15 5.7%
	(as of August, 2009)	Rivers and Dambo	128.27 3.9%
		Indigenous Village	104.77 3.2%
		Others TOTAL	67.07 2.0%
9	Characteristics	TOTAL 3,310.7 100.0%  State House exists in Area 44. This area is designated for State House plus surrounding open space(agriculture and forestry). The actual situation is almost the same as designated. Informal settlement encroachment is taking place (approx. 190 ha), and indigenous villages are existing as well (approx.105ha).	
10	Future Emerging Strucutre and Development Direction		mination factor for future land use. Since State big change will not happen in this area. No big

A	rea 45		
1	Urban Zone	Chinsapo	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	1,106.0
	Tired (iid)	Actual	1,365.3
		in 1988	414
4	Nos of Population	in 2008	170
-		Pop Growth Rate% 1988-2008	-8.50
5	Population Density (/ha)	in 1988 (Actual)	0
		in 2008 (Actual) Nos of Village	1
	Nos of Unplanned	Nos of Population in 1987	442
6	Settlement Population	Nos of Population in 2005	1,494
	Settlement i opulation	Pop Growth Rate% 1987-2005	-
	Y 1 C	Agriculture	1,365.3
7	Landuse of Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	1,365.3
I		Seasonal agriculture/Agri-mix	1,202.24 88.1%
		Rivers and Dambo	90.04 6.6%
	Actual Landuse (ha)	Cemetery Low density housing	17.58 1.3%
8	(as of August, 2009)	Low density housing Light & Service Industry	17.19 1.3% 8.17 0.6%
I	(as of August, 2007)	Primary & Secondary Education	7.58 0.6%
		Others	22.53 1.6%
L		TOTAL	1,365.3 100.0%
9	Characteristics	Area 45 is located just next to the rapid popula designated as agriculture. Big dairy firms exist informal encroachment strictly, Area 45 has be	ation increase area (Area 57). This area is there. As dairy firms monitor and check
10	Future Emerging Structure and Development Direction.	*	maintained mostly as big ranch and agriculture g factories or agri-industries will be located for

A	rea 46		
1	Urban Zone	Chinsapo	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	917.0
3	Area (ha)	Actual	1,033.7
		in 1988	2,244
4	Nos of Population	in 2008	3,189
		Pop Growth Rate% 1988-2008	3.60
5	Population Density (/ha)	in 1988 (Actual)	2
		in 2008 (Actual)	3
	Nos of Unplanted	Nos of Village	1 221
6	Nos of Unplanned Settlement Population	Nos of Population in 1987	1,221
	Settlement Population	Nos of Population in 2005 Pop Growth Rate% 1987-2005	4,127
		Agriculture	1,033.7
	Landuse of	rigileature	1,055.7
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	1,033.7
		Seasonal agriculture/Agri-mix	779.36 75.4%
		Woodland	51.84 5.0%
		Low density housing	44.07 4.3%
8	Actual Landuse (ha)	Rivers and Dambo	38.51 3.7%
	(as of August, 2009)	Indigenous Village	35.63 3.4%
		Poultry farm/Dairy farm	20.65 2.0%
		Others TOTAL	63.67 6.2% 1,033.7 100.0%
9	Characteristics	Area 46 is designated as Agriculture according to OZS. The actual situation is mostly as designated as well. Seasonal agriculture/Agri-mix is dominant (75%). Some low density housing (probally farmers' house) (4%:Low density housing, 3%: Indigenous Village). The agriculture taken place here is mostly large-scale and or company scale.	
10	Future Emerging Structure and Development Direction	Since agriculture in this area is large-scale and strict for the encroachment. Therefore, there is settlements. However, this area is located alon the location is good enough for future commer	not a big risk to be encroached by informal g the Chimchinji Road (M4) going to Zambia,

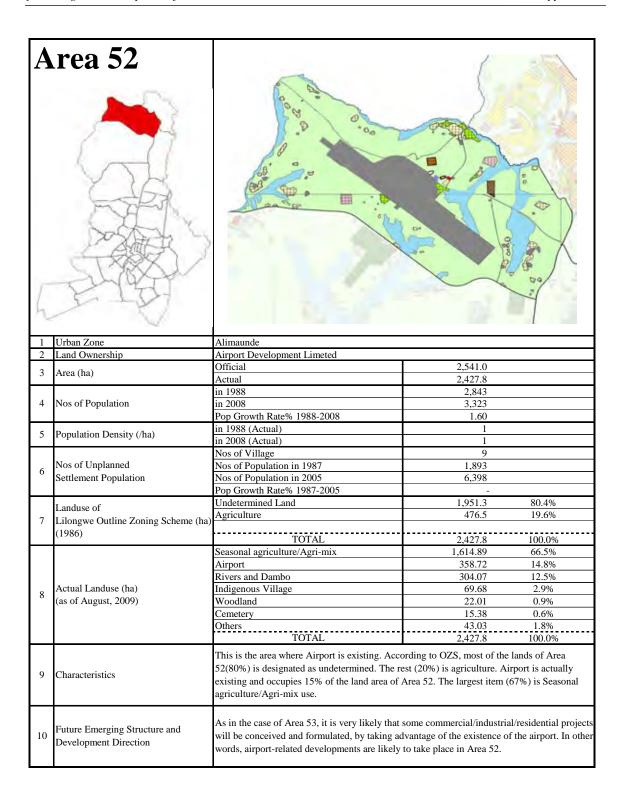


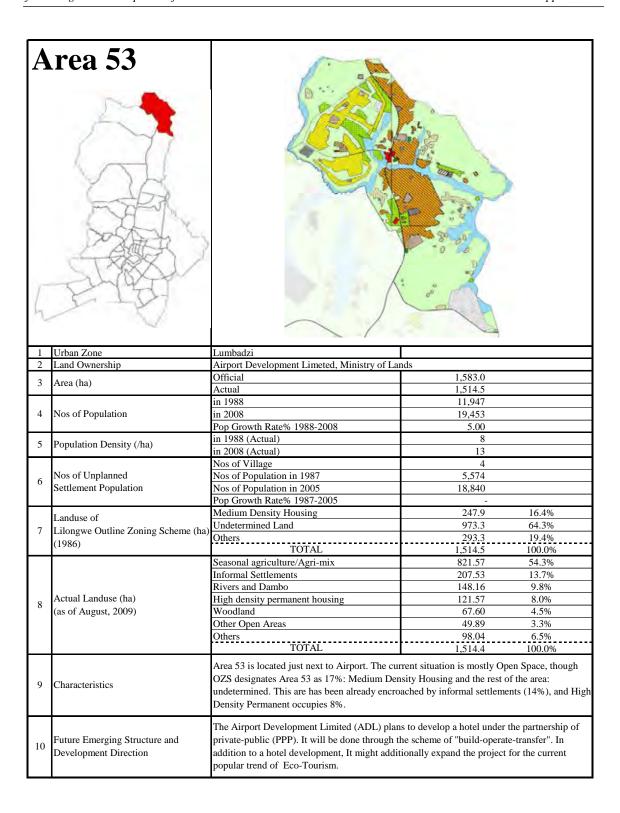
A	rea 48				
1	Urban Zone	Chimutu			
2	Land Ownership	Ministry of Lands			
3	Area (ha)	Official	89.0		
	r neu (nu)	Actual	95.0		
		in 1988	0		
4	Nos of Population	in 2008	0		
-		Pop Growth Rate% 1988-2008	0.00		
5	Population Density (/ha)	in 1988 (Actual)	0		
		in 2008 (Actual) Nos of Village	-		
	Nos of Unplanned	Nos of Population in 1987	-		
6	Settlement Population	Nos of Population in 2005	-		
	Settlement i opulation	Pop Growth Rate% 1987-2005	_		
	Landuse of	Undetermined Land	95.0		
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	95.0		
		Seasonal agriculture/Agri-mix	87.26 91.8%		
		Rivers and Dambo	4.78 5.0%		
	Astro-11 and as a Chair	Medium density housing	1.99 2.1%		
8	Actual Landuse (ha)	District Distributor Road	0.68 0.7%		
I	(as of August, 2009)	Power Station/Sub Station with H.T. line High density permanent housing	0.25 0.3% 0.05 0.1%		
		TOTAL	95.0 100.0%		
9	Characteristics	Area 48 has been kept as undetermined land, a largely developed for residential. The current % Seasonable agriculture/Agri-mix.	although the surrounding areas have been land use is almost open space as designated. 90		
10	Future Emerging Structure and Development Direction	be used for leisure/sports/reluxation in future.	mplex and Stadium in Area 48. This area shall In line with the proposed plan, it is very developments will take place in proximity with		

A	rea 49	The state of the s			
1	Urban Zone	Mariya			
2	Land Ownership	Malawi Housing Corperation, Lillongwe City			
3	Area (ha)	Official	964.0		
		Actual	1,360.3		
	N CD l. c'	in 1988	13,501		
4	Nos of Population	in 2008	26,001		
		Pop Growth Rate% 1988-2008 in 1988 (Actual)	6.80 10		
5	Population Density (/ha)	in 2008 (Actual)	19		
		Nos of Village	1		
_	Nos of Unplanned	Nos of Population in 1987	590		
6	Settlement Population	Nos of Population in 2005	1,994		
	•	Pop Growth Rate% 1987-2005	<del>-</del>		
	Landuse of	High Density Housing Traditional	1,360.3		
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	1,360.3		
I		Seasonal agriculture/Agri-mix	664.42 48.8%		
I		Informal Settlements	445.25 32.7%		
	A storal V and a state (ba)	Rivers and Dambo	84.64 6.2%		
8	Actual Landuse (ha)	High density permanent housing Medium density housing	79.08 5.8%		
I	(as of August, 2009)	Religious Building/Centre/Institutes	29.57 2.2% 15.07 1.1%		
I		Others	42.31 3.1%		
		TOTAL	1,360.3 100.0%		
9	Characteristics	Area 49 is the mix of agricultural land use and as THA by OZS. However, around one third is The existence of informal is much more than F Density Housing (2%).	informal settlements. This area is designated currently occupied by Informal Settlements.		
10	Future Emerging Structure and Development Direction	If any big steps are not taken, the informal sett upgrading and improvement efforts will have t LCA is planning to develop infrastructure for Malawi Housing plans to construct flats in 49/	o be taken constantly and strenuously. In fact, multi-storied flats development in 49/6 and		

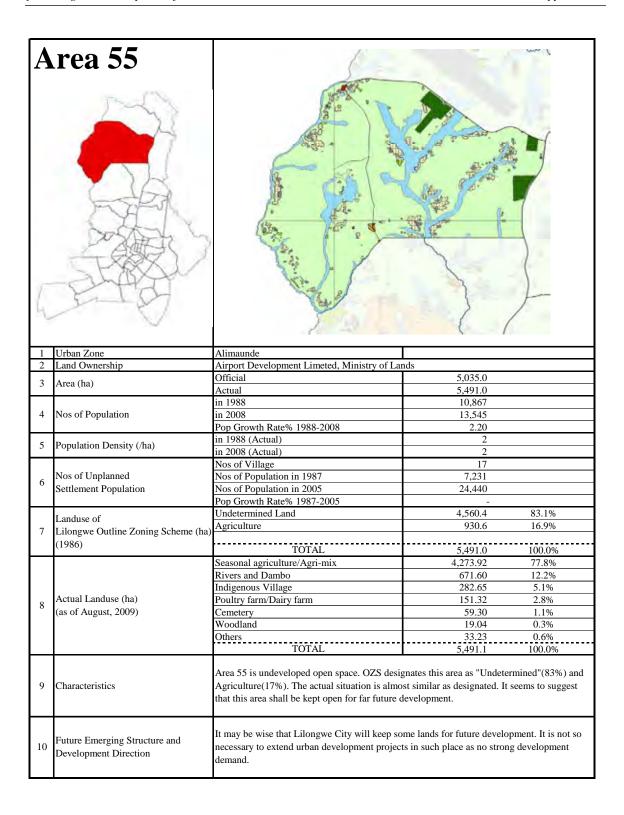
A	rea 50		
1	Urban Zone	Kanengo	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	517.0
	Theu (mu)	Actual	643.3
١.		in 1988	8,178
4	Nos of Population	in 2008	26,990
-		Pop Growth Rate% 1988-2008	12.70
5	Population Density (/ha)	in 1988 (Actual)	13
		in 2008 (Actual)	42
	Nos of Unplanned	Nos of Village Nos of Population in 1987	6 5,523
6	Settlement Population	Nos of Population in 2005	18,667
	Settlement i opulation	Pop Growth Rate% 1987-2005	-
		Industry	643.3
_	Landuse of	•	
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	643.3
		Informal Settlements	296.68 46.1%
I		Seasonal agriculture/Agri-mix	235.62 36.6%
	l	Rivers and Dambo	38.35 6.0%
8	Actual Landuse (ha)	High density traditional housing	17.88 2.8%
	(as of August, 2009)	District Distributor Road	13.55 2.1%
		Heavy/Large Scale industry	13.26 2.1%
		Others TOTAL	27.97 4.3% 643.3 100.0%
9	Characteristics	Area 50 is located in the industrial zone of Kar The current situation is, however, the mix of I Since Area 50 is very close to factories in Kan Area 50, 49 etc.	Informal Settlements and Seasonal Agriculture.
10	Future Emerging Structure and Development Direction	Open spaces are still existing in Area 50. Appr indutrilization is accelerated, construction of n other hand, it is also probable that informal set rapidly.	ew factories is likely to take place here. On the

### Area 51 Urban Zone Kanengo Land Ownership Ministry of Lands 126.0 Official Area (ha) Actual in 1988 14,499 Nos of Population in 2008 13,583 Pop Growth Rate% 1988-2008 -0.70 in 1988 (Actual) 57 Population Density (/ha) in 2008 (Actual) 54 Nos of Village Nos of Population in 1987 4,480 Nos of Unplanned Settlement Population Nos of Population in 2005 15,142 Pop Growth Rate% 1987-200 Industry 252.2 Landuse of Lilongwe Outline Zoning Scheme (ha) (1986)TOTAL 142.22 56.4% Seasonal agriculture/Agri-mix Informal Settlements 51.14 20.3% Rivers and Dambo 30.46 12.1% Actual Landuse (ha) Heavy/Large Scale industry 16.91 6.7% 8 (as of August, 2009) District Distributor Road 5.63 2.2% Light & Service Industry 2.49 1.0% 3.36 252.2 Others TOTAL\_\_\_\_ 1.3% Area 51 is located in Kanengo Sector, and it is designated as Industrial by OZS. The actual situation is, however, that most of the lands are still undeveloped. Only 7% is used as Characteristics Heavy/Large Scale industry extended from Area 28. Informal settlements encroachment has already taken place. 20% of the land area is informal. Since 51 was intended for industrial use, priority should be given to industrial projects. Future Emerging Structure and Capital intensive, large-scale factories will be desirable to be attracted. Or another direction 10 Development Direction might be high density flat developments or mixed use development in linkage with redevelopment/renewal of existing informal settlements.





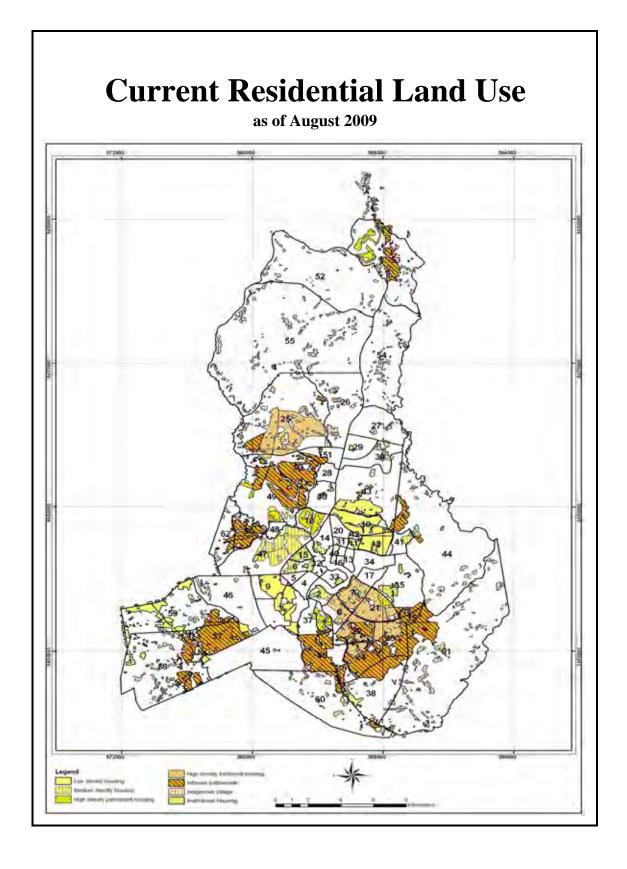
A	rea 54			
1	Urban Zone	Lumbadzi		
2	Land Owner Ship	Ministry of Lands		
3	Area (ha)	Official	187.0	
	()	Actual	1,751.0	
	Nos of Population	in 1988	3,469	
4		in 2008	4,489	
-		Pop Growth Rate% 1988-2008 in 1988 (Actual)	2.60	
5	Population Density (/ha)	in 2008 (Actual)	3	
		Nos of Village	3	
	Nos of Unplanned	Nos of Population in 1987	1,109	
6	Settlement Population	Nos of Population in 2005	3,748	
	•	Pop Growth Rate% 1987-2005	-	
	Landuse of	Forestry	1,544.2	88.2%
7	Lilongwe Outline Zoning Scheme (ha)	Open Space	206.8	11.8%
,	(1986)			
	(1700)	TOTAL	1,751.0	100.0%
		Seasonable agriculture/Agri-mix	1,484.64	84.8%
		Rivers and Dambo Indigenous Village	98.12 87.41	5.6%
	Actual Landuse (ha)	Woodland	31.53	1.8%
8	(as of August, 2009)	Other Open Areas	21.79	1.2%
	(ds of Mugust, 2007)	Cemetery	19.47	1.1%
		Others	8.04	0.5%
		TOTAL	1,751.0	100.0%
9	Characteristics	Area 54 is still undeveloped open space. According for agriculture. Indigenous villages are existing	rding to OZS, it is designated the undeveloped open speae,	as preserving
10	Future Emerging Structure and Development Direction	There is a project to establish "Raising Malawi project is a private-sector-driven project. The of However, urbanization expansion has not been disadvantage of transport.	letail design and EIA has bee	n already done.

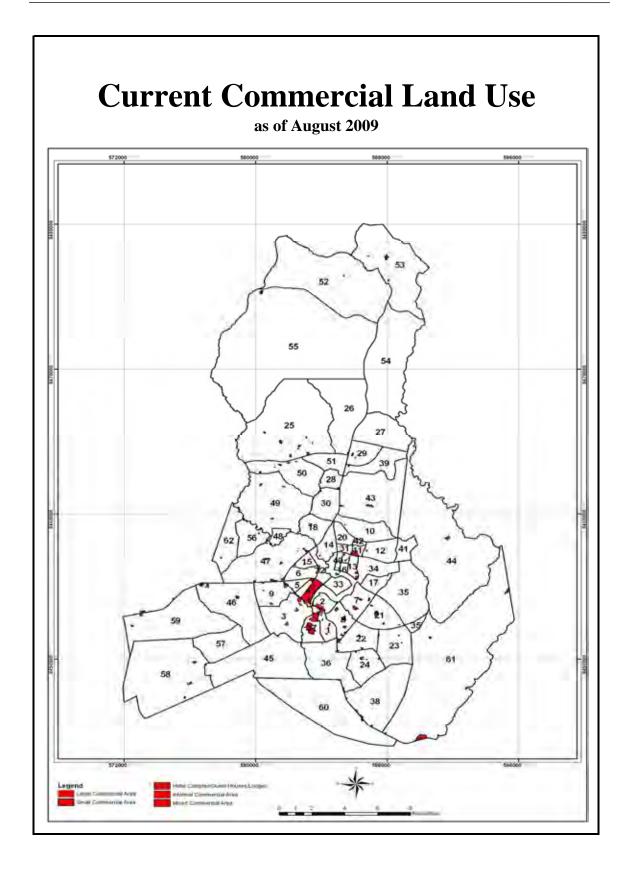


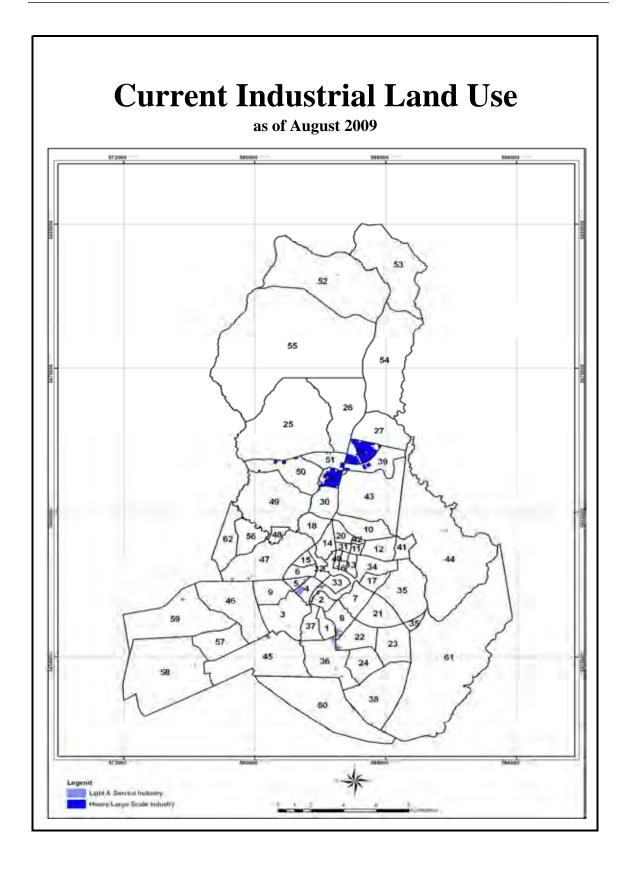
A	rea 56		
1	Urban Zone	Mariya	
2	Land Ownership	Ministry of Lands	
3	Area (ha)	Official	667.0
Ľ		Actual	332.8
	N	in 1988	22,369
4	Nos of Population	in 2008	36,786
		Pop Growth Rate% 1988-2008 in 1988 (Actual)	5.10 67
5	Population Density (/ha)	in 2008 (Actual)	111
		Nos of Village	4
	Nos of Unplanned	Nos of Population in 1987	8,860
6	Settlement Population	Nos of Population in 2005	29,946
	T	Pop Growth Rate% 1987-2005	-
	Landuse of	High Density Housing Traditional	332.8
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	332.8
		Informal Settlements	207.26 62.3%
		Seasonal agriculture/Agri-mix	74.43 22.4%
	Actual Landusa (hs)	Rivers and Dambo	33.03 9.9%
8	Actual Landuse (ha) (as of August, 2009)	Indigenous Village	5.24 1.6% 4.74 1.4%
	(as of August, 2007)	Cemetery Primary & Secondary Education	4.74 1.4% 4.33 1.3%
I		Others	3.74 1.1%
		TOTAL	332.8 100.0%
9	Characteristics	Area 56 is one of typical informal concentration	on areas. It is designated as THA by OZS. As ea is already occupied by Informal Settlements.
10	Future Emerging Structure and Development Direction	It is one of serious constraint area of informal shall be done immediately with strenuous effor	

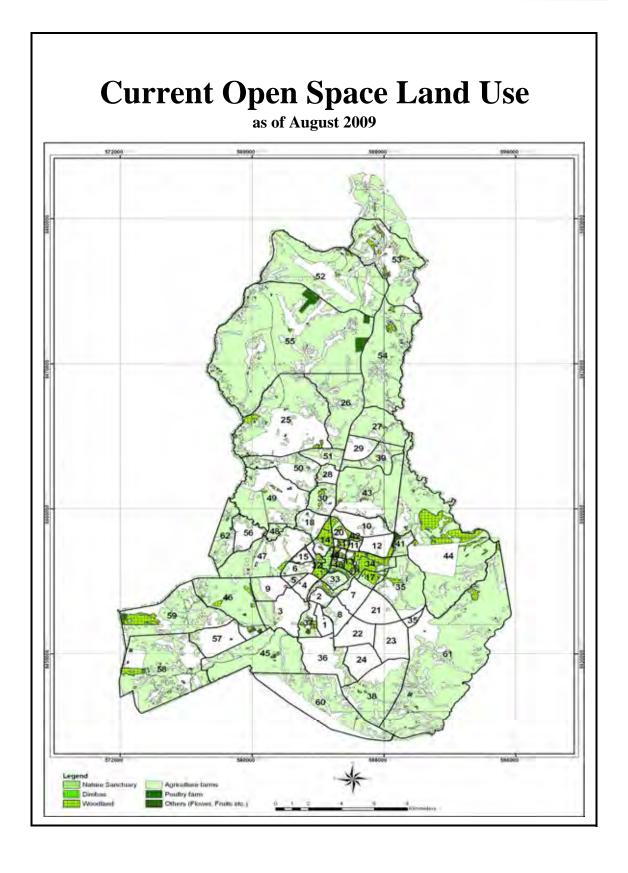
A	rea 57		
h			
1	Urban Zone	Chinsapo	
2	Land Ownership	Lillongwe City Assembly	
		Official	578.0
3	Area (ha)	Actual	512.7
		in 1988	34,692
4	Nos of Population	in 2008	60,617
		Pop Growth Rate% 1988-2008	5.70
5	Population Density (/ha)	in 1988 (Actual)	68
	1	in 2008 (Actual)	118
	Nee of Hardone d	Nos of Village	8
6	Nos of Unplanned Settlement Population	Nos of Population in 1987 Nos of Population in 2005	10,965
	Settlement Population	Pop Growth Rate% 1987-2005	37,061
		High Density Housing Traditional	512.7
l _	Landuse of	mg. Zonon j Housing Haditional	012.7
7	Lilongwe Outline Zoning Scheme (ha) (1986)	TOTAL	512.7
		Informal Settlements	447.04 87.2%
		Seasonal agriculture/Agri-mix	38.95 7.6%
		Cemetery	9.61 1.9%
8	Actual Landuse (ha)	Rivers and Dambo	7.17 1.4%
0	(as of August, 2009)	Primary & Secondary Education	5.91 1.2%
		Others	1.15 0.2%
		Others TOTAL	2.90 0.6% 512.7 100.0%
9	Characteristics	Area 57 is a the most densely concentrated with area is occupied by Informal Settlements. The parea is occupied by Informal Settlements. The pareas in such THA areas a reasons. The cost is cheap and the location is not	population influx from countriside to Lilongwe is Area 57, mainloy because of some economic
10	Future Emerging Structure and Development Direction	The upgrading and improvement efforts shall b	be done. Regularization should be basic stance.

A	rea 58		
1	Urban Zone	Chinsapo	
2	Land Ownership	District Assembly	
3	Area (ha)	Official	1,085.0
-	` '	Actual	2,135.5
4	Nos of Population	in 1988	16,893
4	Nos of Population	in 2008 Pop Growth Rate% 1988-2008	24,477 3.80
		in 1988 (Actual)	8
5	Population Density (/ha)	in 2008 (Actual)	11
		Nos of Village	-
_	Nos of Unplanned	Nos of Population in 1987	-
6	Settlement Population	Nos of Population in 2005	-
	-	Pop Growth Rate% 1987-2005	-
	Landuse of	Undetermined Land	2,135.5
7	Lilongwe Outline Zoning Scheme (ha)		
Ι΄.	(1986)	mos::	
	<u> </u>	TOTAL	2,135.5
I		Seasonable agriculture/Agri-mix	1,315.35 61.6%
I		Informal Settlements Rivers and Dambo	249.13 11.7% 137.23 6.4%
	Actual Landuse (ha)	Indigenous Village	106.84 5.0%
8	(as on August, 2009)	Higher Education	105.62 4.9%
	(as on Flagues, 2009)	Woodland	63.00 3.0%
I		Others	158.34 7.4%
L		TOTAL	2,135.5 100.0%
9	Characteristics	Area 58 is proposed to be newly joined within CENSUS has counted its population as a part of mostly undeveloped yet. However, the informatic sextended from the eastern side (Area 57).	the jurisdiction of Lilongwe City. 2008 of Lilongwe City. The current land use is
10	Future Emerging Structure and Development Direction		nis area, sooner or later housing developments re strongly. The effort of providing formal high ng and improvement effort shall be done for the









# APPENDIX 2 Urban Profile of Lilongwe City

# **Urban Zones**

For the purpose of basic urban analysis of Lilongwe city, the study area was sub-divided into various urban zones. The following parameters were considered while finalizing the zones:

- Major or dominant land use;
- > Existing boundaries;
- > The type of housing;
- ➤ Basic infrastructure availability;
- > Unplanned settlements;
- Urban Population and population growth.

Prior to any further analysis, the draft zones were discussed with Lilongwe City Council and were also discussed with the concerned officials from Physical Planning and other departments during the Land Use Working Group Meeting.

Considering the above parameters, the study area was sub-divided into 12 zones, with each zone being named using the most commonly used or dominant name in that particular area. Table-1 shows further details on the Zones, including allocated names, abbreviations and composite area numbers (the study area consists of Area 58 separate areas).

Figure-1 shows the spatial distribution and the areas coverage by each of the suggested zones.

	Table 1 Urban Zones in the Study Area (Lilongwe City)					
	Urban Zone	Abv.	Areas			
1	Alimaunde	ALM	52, 55			
2	Lumbadzi	LUM	53, 54			
3	Mvunguti	MVN	25,26,27			
4	Kanengo	KAN	28, 29, 39,50,51			
5	Mariya	MRY	49, 56			
6	Chimutu	CMT	3,6,9,15,18,47,48			
7	Nyama	NYM	10,12,30,43			
8	Tsabango	TBN	35,41,44			
9	City Centre	CCT	11,13,14,16,17,19,20,31,32,33,34,40,42.			
10	Old Town	OTN	1,2,4,5,7,8,21,37			
11	Chinsapo	CSP	45,46,57,58			
12	Ngwenya	NWY	22,23,24,36,38			

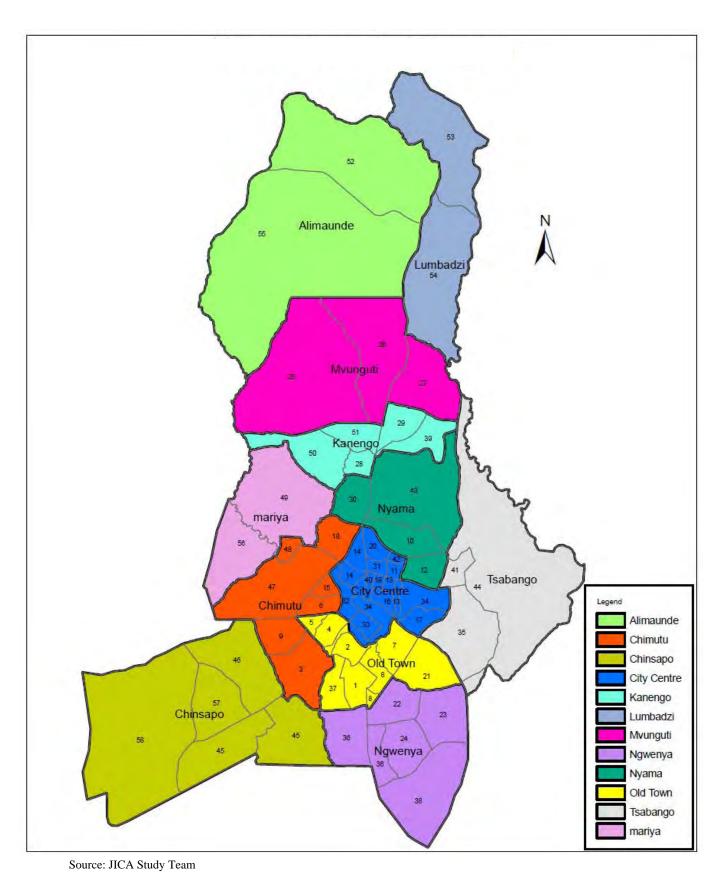


Figure 1 12 Urban Zones in the Study Area (Lilongwe City)

### **Urban Zone Profile**

	Urban Zone Profile								
No.	Urban Zone	Areas	Basic Description	Population & Population Density	Land Ownership and Typical Land Use	Housing and Informal Settlement	Main Development Projects to Take Place in Future	Infrastructure	Major Issues & Emerging Future Development
1	Alimaund e Zone	52, 55	Airport and vacant area currently used for agriculture activities. Among the 12 zones, this has the largest area with a plenty of scope for further development.	As per the Census 2008, this zone has a total population of 18,876. In the last 10 years the population increased by approx. 20.2%. As this has the large undeveloped area, the population density is quite low (2.4 per/ha). This zone has an area of approx. 7919 ha.	This zone land is owned roughly 50/50 by the Airport Development Limited and the Ministry of Land. The typical land uses in this zone are Airport use, cultivation, indigenous villages and informal settlements.	Area 52 comprises mainly the Airport area with runway and buildings i.e. offices, and warehouses. Area 55 comprises horticulture area. However some sporadic village settlements and farming and some institutional buildings e.g. police also exist. As a 1	Area 52 comprises mainly the Airport area with runway and buildings i.e. offices, and warehouses. Area 55 comprises horticulture area. However some sporadic village settlements and farming and some institutional buildings e.gpolice also exist. A new	The area is composed of services with a tarmac road up to the airport terminal and warehousing area. The remainder is serviced by earth roads and narrow mud lanes.  Water supply is reticulated by the Lilongwe Water Board around the airport areas, while the villages are ser	Airport location not utilized to its full potential.  Need to plan for the maximum utilization of existing airport.  Need to be supported by Infrastructure services.  The area is largely unserviced by roads, no access to electricity and sanitation coverage to
2	Lumbadzi Zone	53, 54	The zone consists partly of a residential area which is supporting the airport activities. A large portion of the area is barren land with indigenous villages and informal settlements.	As per the Census 2008, this zone has a total population of 23,942. In the last 10 years the population increased by approx. 55.3%. This is one of the most rapidly developing areas, however it is still has a low density (7.3 per/ha). This zone has an area of approx. 3,265	This zone land ownership is shared between Airport Development Limited and Ministry of Land. In general, majority of the land is owned by Ministry of Land. In general the major chunk of land that belong to Ministry of Land is currently used as Customary 1	Airport Development Limited (ADL) has 845 houses of medium and high density with 500 and 700, respectively, medium and high density new subdivisions. As this zone is near to Airport area, it seems the informal settlements has grown to support the resident	There are proposals for 2500 plots to be subdivided for private development by ADL. Areas 53/2, 3 & 4 are heavily squatted by informal high density traditional settlements and a commercial development. The areas has traditional village settlements extend	The area is partly serviced in the ADL housing estate with roads, water, and electricity while the informal settlements and villages are unserviced (roads area earthen and unpaved, water is from boreholes, wells and rivers.  The whole area is accessible b	The large vacant available area need to be developed in a planned manner.  Airport location not utilized to its full potential. Need to plan for the maximum utilization of existing airport.  The forest area which in reality doesn't exist need to be plann
3	Mvunguti Zone	25,26,27	zone. However, it is	As per Census 2008, this zone has a total population of 71,698. In last 10 years this zone experienced the rapid increase in population. It increased by 61.3%. This is one of the rapidly developing area, with a density of 17.4 per/ha. This zone has an a	This zone land ownership is shared between Lilongwe City Assembly and Malawi Housing Corporation. In general, majority of the land in this zone is owned by Lilongwe City Assembly. The typical land uses in this zone are high density traditional housing, m	The zone is largely a high density traditional housing area with small area of high density permanent housing areas with institutional development. As this zone is near to Industrial area, the informal settlements are on rise and are supporting the indust	A part of the area has been leased for a huge scale private sector housing development project. (Kanengo Northgate) The scale is so big. However, so far, such a big scale of development is unlikely to happen probaly because of fund procurement difficulti	Apart from the M1 road and the main distributor roads the rest is serviced by earth roads and unpaved.  Water supply is partly accessible to the areas managed by LCA, and the institutional areas while the traditional areas are serviced by boreholes, wells	Specific policy need to be formulated for the upgradation of housing and socio economic conditions of the rapidly increasing population specially in the high density traditional areas. Policy and plans need to be framed for the encroachment, resettlement
4	Kanengo Zone	28, 29, 39,50,51	Though this is considered as Industrial area but majority of the activities are limited for storage rather then manufacturing or processing products. A large number of warehouses along with a Freight Railway Station exist in this zone.	As per Census 2008, this zone has a total population of 45,957. In last 10 years this zone experienced the rapid increase in population. It increased by 66.9%. However, the population is mainly concentrated in area 39, 50 & 51. This zone has a density o	This zone's land is owned by Ministry of land. Partial land is owned by Lilongwe City Assembly (part of Area 39). The typical land uses in this zone are industrial use, ware houses, high density permanent housing, bare land and informal settlements.	As there is a demand for cheap labour in this industrial zone, it resulted in the rapid increase of informal settlements.  As per City Assembly 2005 data, the total informal population in this zone is approx. 43,904 which is highest among the 12 zones.	The current use of this zone is mainly industrial land use, new additional industrial developments are likely to happen. But, the zone is heavily encroached by informal settlements specially in the area 50, 51 and 39. In future, it seems to be of great im	Apart from Area 28 and 29 which is fully serviced by sealed roads, water, sewerage and electricity. The rest is not serviced, largely serviced by earth roads, foot paths.  Water supply is accessible to certain areas and rest are dependent on boreholes, w	Policy with certain Incentives need to be framed for the promotion of Investment in Industrial Area. Need is to convert this region from "Storage" activities (warehouses) to "Manufacturing" activities. Strategies and policies need to be framed to regulat
5	Mariya Zone	49, 56	This is mainly a high density traditional residential area with rapid increase of population in the southern area of the zone. Large vacant land is available for further development.	total population of 62,187. In last 10 years this zone experienced the rapid increase in population. It increased by 75%. This zone has a density of 36.7	This zone's land ownership is shared between Ministry of Lands, Malawi Housing Corporation and Lilongwe City Assembly. The typical land uses in this zone are high density traditional, high density permanent housing, bare land and informal settlements.	Despite being near to Industrial zone, it seems that the industrial activities has a limited influence to the informal settlements. These are basically supporting the residential area that exist in near by zones like Chimutu. As per City Assembly 200	Area round high density traditional housing area partly developed as high density permanent area in areas 49/1 and 5. Area 56 is squatter settlement area with village settlements e.g. Mtandire, Mtsiliza, Pearson etc. The rest of the area 49/6 is farmlan	Apart from Areas 49/1, 4,5 which is serviced by earth, and gravel roads the rest of the area does not have well developed road network. Water supply is partly provided by Lilongwe Water Board but some areas use boreholes, wells and streams.  Area-49 ha	This is a rapidly developing area with a non existence of layout plans. The informal and haphazard way of division and sub-division of plots leading to chaos. Thus need to be survey and planned accordingly.  Considering this zone's closeness to the Industr
6	Chimutu Zone	3,6,9,15, 18,47,48	This is a residential area with a mix of high density permanent, medium density and low density residential settlements. Majority of the development is on the eastern side of this zone.	As per Census 2008, this zone has a total population of 30,801. In last 10 years this zone experienced the decline in population. It decreased by 8.3%. This zone has a density of 11.6 per/ha. This zone has an area of approx. 2,665 ha.	This zone's land ownership is shared between Ministry of Lands, Malawi Housing Corporation and Press Properties, Pvt. Owners (Freehold Property). The typical land uses in this zone are high density permanent housing, medium density housing and low densit	The area is largely low, medium and high density permanent residential areas with standard houses of planned and permanent materials privately and institutionally owned. No informal settlements are reported in this zone.  As most of the area is develope	There are not so big projects in this zone. A small scale housing projects will take place from time to time.	Well serviced by tarmac roads, and drains. Some roads require major rehabilitation and maintenance. Sewerage network existing in some areas and complemented by septic tanks. In general this area is fully covered with safe sanitation. Water reticulatio	This zone is very low density area with over-size plot sizes.  The policies to increase the density in this zone need to be promoted. The options like permission for 2-3 storey housing, more area coverage may be allowed.

## **Urban Zone Profile (Continued)**

	Urban Zone Profile (Continued)								
No.	Urban Zone	Areas	Basic Description	Population & Population Density	Land Ownership and Typical Land Use	Housing and Informal Settlement	Main Development Projects to Take Place in Future	Infrastructure	Major Issues & Emerging Future Development
	Nyama Zone	10,12,30 ,43	This is low density area with a institutional area dedicated for Police activities and uses. The majority of the upper region of this zone is vacant and available for further development.	As per Census 2008, this zone has a total population of 10,175. In last 10 years this zone also experienced the decline in population. It decreased by 9.0%. This zone has a low density of 4.4 per/ha. This zone has an area of approx. 2,326 ha.	This zone's land is owned by Ministry of Land and Malawi Housing Corporation (MHC). The typical land uses in this zone are low density housing, medium density housing and police area.	This zone is mainly used for low density permanent residential area. Permanent standard housing developments are taking place. As per Lilongwe City Assembly 2005 data no informal settlements are reported in this zone. However, some informal settlements a	There are not so conspicuously big development plans, but permanent standard housing developments are likely to happen. government buildings. New extension area available	standard.  New road network are under construction.  Electricity reticulated and being extended to new areas.	This zone is very low density area with over-size plot sizes. The policies to increase the density in this zone need to be promoted. The options like permission for 2-3 storey housing, more area coverage may be allowed.  The institutions need to be promot
8	Tsabango Zone	35,41,44		As per Census 2008, this zone has a total population of 33,729. In last 10 years this zone experienced the rapid increase in population. It increased by 83.5%. This zone still has a low density of 7.8 per/ha. This zone has an area of approx. 4,324 ha	This zone's land is owned by Ministry of Land. The typical land uses in this zone are State house, Military uses, forest, informal settlements and bare lands.		Since the State House is located in this zone, any big development projects will have to undergo strict examination. In particular, if the locaton were planned very near to the State house, it will be checked with due care, whatever the development might	Telephone and cellular network available. Sewerage systems in place. Refuse disposal and collection is regular in this	Large undeveloped vacant land is available. It is presumed that the Government will not allow urban development so much. If the Government allows some development projects, it will be necessary to formulate a plan for orderly development.  Probably preser
9	City Centre Zone	11,13,14 ,16,17,1 9,20,31, 32,33,34 ,40,42.	centre of a city. It consists of Natures Sanctuary area with a high potential to	As per Census 2008, this zone has a total population of 5,109. In last 10 years this zone experienced the increase in population. It increased by 22.9%. This zone still has a low density of 3.2 per/ha. This zone has an area of approx. 1,612 ha.	This zone's land is owned by Ministry of Land. The typical land uses in this zone are City Centre, Administrative Centre, Institutional Area and Nature Sanctuary Area.	This zone is City Center. There are many office buildings, government houses, shops, banks and some institutional developments. No informal settlements are reported in this zone.  As most of the area is developed with limited vacant spaces and not much s	Construction of New City Centre is proposed in this zone. Diplomatic mission offices, government offices also exist in this zone. Construction of New Parliament building and cultural centre is underway. We may expect that a lot of institutional developm	Sewerage network is partly available. Electricity network available. Water supply network in place.	Zone is under-developed with a large number of plots still vacant/under developed.  Non optimum utilization of nature's gift "Sanctuary Area". This area has big potentiality to be developed and strengthened as major office work center (Central Business Di
10	Old Town Zone	1,2,4,5,7 ,8,21,37	uses with highest population density among the 12 zones. As per current land use and planning standard, it is	75.7 per/ha.	This zone's land is shared between Ministry of Lands, Malawi Housing Corporation and Lilongwe City Assembly.  The typical land uses in this zone are Commercial area, Medium density, High Density Permanent Housing and few light industries (agro processin	As per City Assembly 2005 data, the total informal population in this	in Lilongwe City. Retail shopping center developments and other related service	Water supply system fully reticulated.	With a mix of many activities, this zone is facing many typical problems, such as traffic circulation, parking, illegal and haphazard commercial development etc.  Congestion and overcrowding is a major issue.  Open spaces and parks are missing in the highe
11	Chinsapo Zone	45,46,57 ,58	also has a large land area that is currently used for agriculture and other activities (green areas). As study area includes 'Area	As per Census 2008, this zone has a total population of 88,453. Third highest populated zone. In last 10 years this zone experienced the rapid increase in population. It increased by 63.1%. This zone has the density of 17.5 per/ha.  This zone has an a	This zone's land is shared between Ministry of Lands, Malawi Housing Corporation and District Assembly. The typical land uses in this zone are Cultivation area, informal settlements, medium density housing, bare lands and indigenous villages.	As per City Assembly 2005 data, t	Formalization and upgrading projects for the informal settlements shall be in strong demand, since some areas of this zone shows a caotic situation in land use. It is confused with Institutional development, light industry, traditional housing areas and c	Partially developed infrastructure.  Zone is basically served with earth roads and mud lanes.  Use of septic tanks and pit latrines in the zone.  Not all have a safe access to sanitation.  Electricity not fully reticulated.  Water supply by Lilongwe Wate	With an addition of area 58, there is conflict between urban and rural land and development. Being a critical issue, the development need to done in phased manner to satisfy both communities.  Landowner ship and regulation are still a issue and need to be
12	Ngwenya Zone	22,23,24	urban sprawl development can be observed in this zone. Despite this, a large chunk of land area is	As per Census 2008, this zone has a total population of 154,971. Most populated zone. In last 10 years this zone experienced the rapid increase in population. It increased by 80.9%. This zone has the density of 50.8 per/ha.  This zone has an area of ap	This zone's land is shared between Ministry of Lands, Lilongwe City Assembly and District Assembly (Customary Land with village settlement) The typical land uses in this zone are medium density housing, high density permanent housing, bare lands and inf	This zone to exist in the extreme end of the city with the availability of large chunk of uncontrolled land. Low supply of housing, serviced land and poverty resulted in mushrooming of informal settlements in this zone. As per City Assembly 2005 data, th	This zone needs formalization and upgrading projects as well, since the land use of this zone is placed in disorder. There exist a confusion of traditional, permanent, institutional, light industry and customary village development. Area 22, 23, 24 and 3	drains The Main M1 road is the main primary road to the area, the rest are earth roads and narrow	Informal land subdivision and encroachments on road reserves need to regulated and planned. Unserviced land, no proper roads, and drains in most areas, and no layout plans for some areas resulting into scattered development. Urban sprawl need to be regul
	0	1.05		nd are based on initial analysis (subject t	<u>L</u>				

Note - Quantitative data & figures mentioned are approx. and are based on initial analysis (subject to change).

Considering parameters such as population, area, unplanned settlements, land use and land ownership, housing and infrastructure, the twelve proposed urban zones can be summarized as follows:

Alimaunde (ALM) – This area is known for the existence of the International Airport. This zone also contains a large vacant area which is currently used for agriculture activities. Among the 12 zones, Alimaunde has the largest area with plenty of scope for further development.

Lumbadzi (LUM) – This zone consists partly of a residential area supporting the airport activities. A further large area is bare land with indigenous villages and unplanned settlements.

Mvunguti (MVN) – This zone is experiencing a rapid increase in population with a high concentration of high density traditional housing. The major development is in the central region of this zone although it is rapidly expanding in all directions.

Kanengo (KAN) - This is considered an industrial area but the majority of the activities are in fact storage facilities rather than manufacturing or processing products. A large number of warehouses along with a Freight Railway Station exist in this zone.

Mariya (MRY) - This zone mainly consists of a high density traditional residential area. This zone is experiencing a rapid increase of population in the southern area. In addition, a large area of vacant land is available for further development.

Chimutu (CMT) - This is a residential area with a mix of high density permanent, medium density and low density residential settlements. The majority of the development is on the eastern side of this zone.

Nyama (NYM) - This is low population density area with an institutional area dedicated for Police activities. The majority of the upper region of this zone is vacant and available for further development.

Tsabango (TBN) - This zone has the 4th largest area among the 12 zones. The zone is dominated by State house (the President's residence) along with Military activities. This zone also has a large vacant area with a high potential for further development.

City Centre (CCT) - This zone is a typical administrative and service centre of a city. It consists of Natures Sanctuary area which has a very high potential to develop as major recreational centre/area in the city. In general other areas are developed with few pockets of land area available for further development.

Old Town (OTN) - This is the old traditional area of the city. It has a typical mix of land uses with the highest population density among the 12 zones. As per current land use and planning standards, it is almost developed to its full potential. However, as of typical old areas in any other part of the developing world, this zone is also facing problems such as parking, traffic, lack of parks and gardens, etc.

Chinsapo (CSP) - This zone is a high density traditional housing area. This zone also has a large area of land that is currently used for agriculture and other activities (green areas). The study zone includes 'Area 58' which is customary land with typical indigenous villages.

Ngwenya (NWY) - This zone is the most rapidly increasing high density traditional housing area. Haphazard urban sprawl development can be observed in this zone. Despite this, a large chunk of land area is available for further development.

#### **Demographic Profile of the Urban Zones**

Typical demographic features such as population size, population density and zone area were analyzed for the twelve proposed urban zones. The zones were compared in terms of population increase in last 10 years (1998-2008), density and zone areas. Figures 2, 3 and 4 illustrate the numerical comparisons. The spatial comparison is shown in Figures 5, 6, 7, and 8. Please note that the areas mentioned below are approximate and are subject to change during boundary finalization in consultation with Lilongwe City Council and other concerned departments.

Alimaunde (ALM) – As per the 2008 Census data, this zone has a total population of 18,876. In the last 10 years the population increased by approx. 20.2%. As there is a large undeveloped area, the population density is quite low (2.4 per/ha). This zone has an area of approx. 7,919 ha. (refer to Figures 2 to 8)

Lumbadzi (LUM) – As per the 2008 Census data, this zone has a total population of 23,942. In the last 10 years (1998-2008) population increased by approx. 55.3%. This is one of the most rapidly developing areas, however it is still has a low population density (7.3 per/ha). This zone has an area of approx. 3,265 ha.

Mvunguti (MVN) – As per the 2008 Census data, this zone has a total population of 71,698. In the last 10 years (1998-2008) this zone experienced a rapid increase in population. The population increased by 61.3%. This is one of the most rapidly developing areas, with a population density of 17.4 per/ha. This zone has an area of approx. 4,117 ha.

Kanengo (KAN)- As per the 2008 Census data, this zone has a total population of 45,957. In the last 10 years (1998-2008) this zone experienced a rapid increase in population; by 66.9%. The population is mainly concentrated in areas 39, 50 and 51. This zone has a density of 27.3people per/ha. It was surprising to observe the high population and density in an Industrial area. This zone has an area of approx. 1,682 ha.

Mariya (MRY) - As per the 2008 Census data, this zone has a total population of 62,187. In the last 10 years (1998-2008) this zone experienced rapid increase in population. The population of this zone increased by 75%. This zone has population a density of 36.7 per/ha and an area of approx. 1,693 ha.

Chimutu (CMT) - As per the 2008 Census data, this zone has a total population of 30,801. In last 10 years (1998-2008) this zone experienced the decline in population. It decreased by 8.3%. This zone has a density of 11.6 per/ha. This zone has an area of approx. 2,665 ha.

Nyama (NYM) - As per the 2008 Census, this zone has a total population of 10,175. In last 10 years (1998-2008) this zone also experienced the decline in population. The population of this zone decreased by 9.0%. This zone has a low density of 4.4 per/ha. This zone has an area of approx. 2,326 ha.

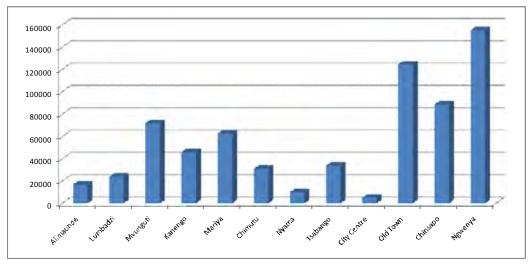
Tsabango (TBN) - As per the 2008 Census data, this zone has a total population of 33,729. In last 10 years (1998-2008) this zone experienced the rapid increase in population. It increased by 83.5%. This zone still has a low density of 7.8 per/ha and has a potential for further development. This zone has an area of approx. 4,324 ha.

City Centre (CCT) - As per the 2008 Census data, this zone has a total population of 5,109. In last 10 years (1998-2008) this zone experienced the increase in population. It increased by 22.9%. This zone still has a low density of 3.2 per/ha. This zone has an area of approx. 1,612 ha.

Old Town (OTN) - As per the 2008 Census data, this zone has a total population of 124,531. This is the second highest populated zone among the 12 urban zones. In last 10 years this zone experienced the increase in population. It increased by 19.4%. This zone has the highest density of 75.7 per/ha. This zone has an area of approx. 1,644 ha.

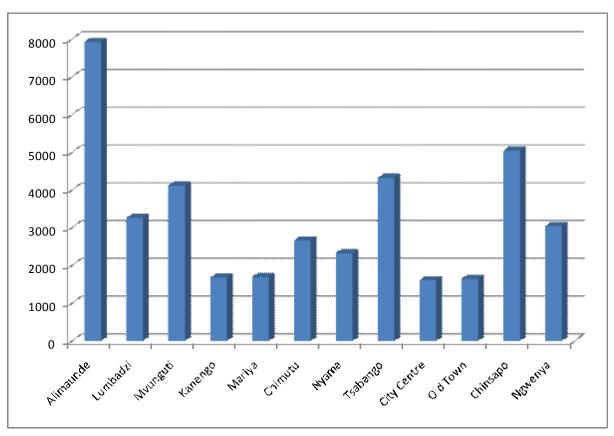
Chinsapo (CSP) - As per the 2008 Census data, this zone has a total population of 88,453. This is a third highest populated zone among the 12 urban zones. In last 10 years this zone experienced the rapid increase in population. It increased by 63.1%. This zone has the density of 17.5 per/ha. This zone has an area of approx. 5,047 ha.

Ngwenya (NWY) - As per the 2008 Census, this zone has a total population of 154,971. This is the most populated zone among the 12 urban zones. In last 10 years this zone experienced the rapid increase in population. It increased by 80.9%. This zone has the density of 50.8 per/ha, which is second highest among the 12 urban zones. This zone has an area of approx. 3,049 ha



Source: JICA Study Team by using 2008 CENSUS

Figure 2 2008 Population by Zone



Source: JICA Study Team, using GIS data compiled by the current land use survey conducted by JICA Study Team

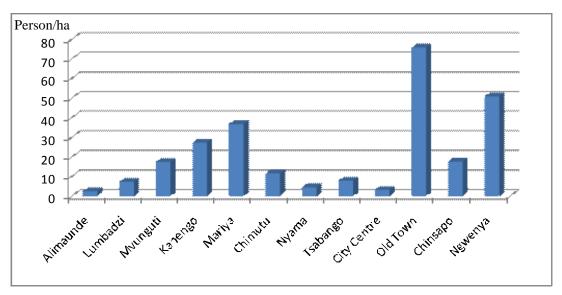


Figure 3 Land Area by Zone

Source: JICA Study Team, on the basis of 2008 CENSUS and

GIS data compiled by the current land use survey conducted by JICA Study Team

Figure 4 Population Density by Urban Zones

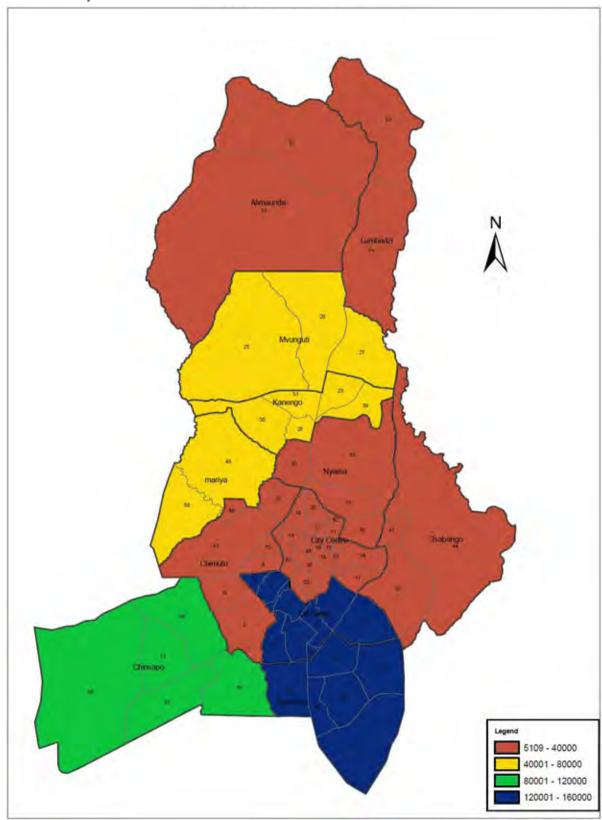


Figure 5 Population Distribution in Urban Zones (2008)

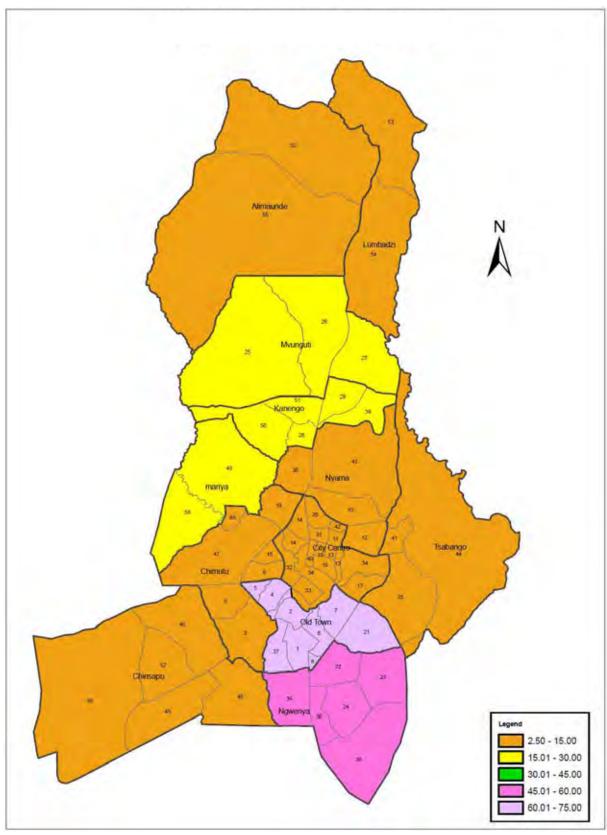


Figure 6 Population Density in Urban Zones (2008)

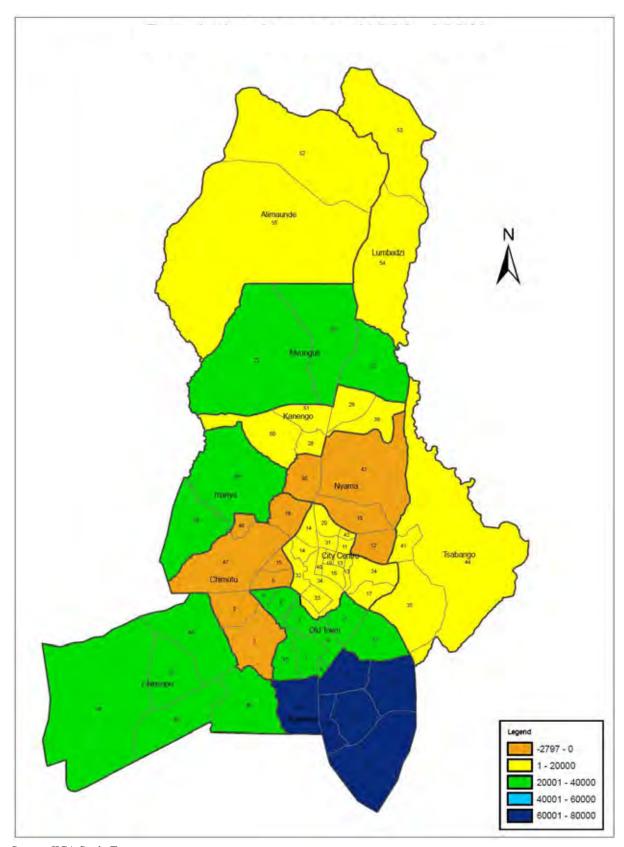


Figure 7 Population Increase in the last 10 years (1998-2008)

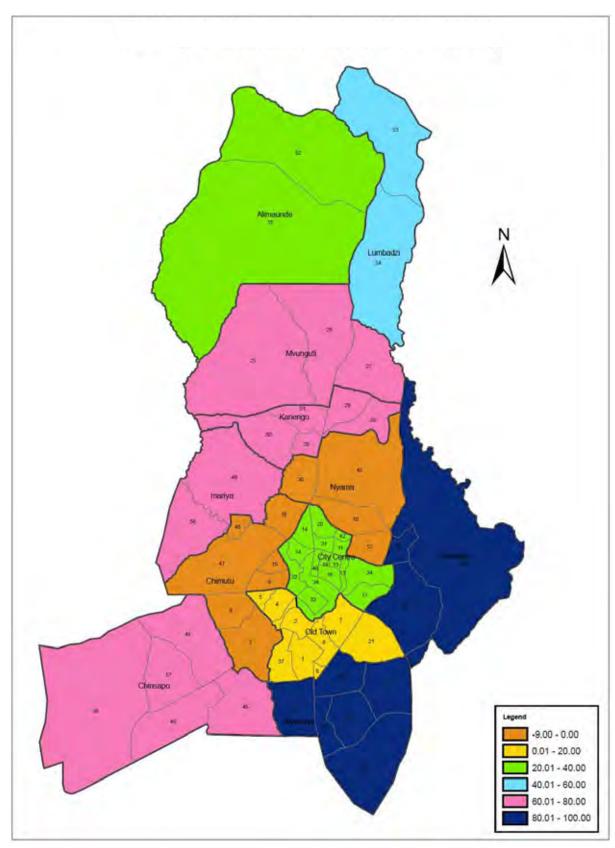


Figure 8 Percentage Population Increase in the last 10 years (1998-2008)

### **Unplanned Settlement in the Urban Zones:**

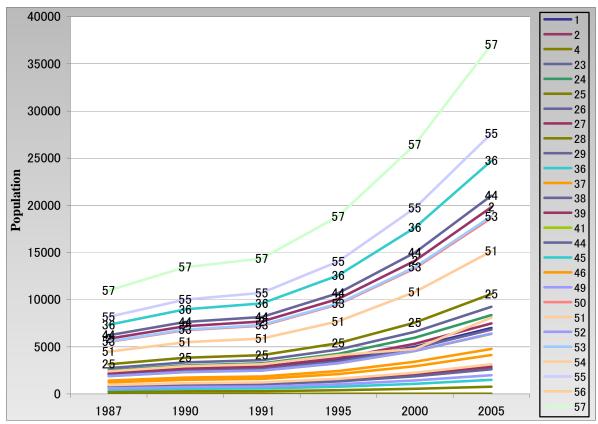
According to Lilongwe City Council, more than 43% of the total city population is either living in unplanned areas or squatter settlements. As per 2005 data, a total population of 277,762 was living in unplanned areas and squatter settlement. Analysis of the growth of unplanned settlements shows that the population in unplanned settlement is continuously increasing at a rapid pace. As per Lilongwe City Council data, the population in unplanned settlement was 82,180, 100,674, 141,201, 277,762 in the years 1987, 1990, 1995 and 2005 respectively. For details refer to Table-2. In the ten year period of 1995 to 2005, the population in unplanned settlement almost doubled.

	Table 3	Growth of U	Inplanned Se	ttlement Pop	pulation in Z	ones	
Urban Zones	Abv.	1987	1990	1991	1995	2000	2005
Alimaunde	ALM	10066	12331	13193	17296	24259	34022
Lumbadzi	LUM	7966	9760	10444	13686	18197	26925
Mvunguti	MVN	6726	8239	8816	11557	16209	22732
Kanengo	KAN	12990	15913	17028	22319	31302	43904
Mariya	MRY	1521	1864	1993	2614	3666	5141
Chimutu	CMT	0	0	0	0	0	0
Nyama	NYM	0	0	0	0	0	0
Tsabango	TBN	8105	9929	10623	13926	19532	27395
City Centre	CCT	0	0	0	0	0	0
Old Town	OTN	9569	11722	12542	16441	23060	32342
Chinsapo	CSP	12628	15469	16552	21697	30430	42682
Ngwenya	NWY	12609	15447	16528	21665	30386	42619
Total		82180	100674	107719	141201	197041	277762

Source: JICA Study Team, by using 2005 Survey on Unplanned Settlements

The rapid growth of unplanned settlement population was observed especially in areas 57, 55, 36, 44, 2, 53, 51 and 25. In area 57, the unplanned settlement population growth was highest. For further details refer to Figure 9.

The three leading zones in 2005 in terms of unplanned population were Kanengo, Chinsapo and Ngwenya. Surprisingly, no unplanned settlement population was reported in Chimutu, Nyama and City Centre. Thus the growth of population in unplanned settlement can be observed in the zones having plenty of open space and those where job opportunities are available in the vicinity area. For details refer to Figures 10 and 11. The unplanned settlement population growth also follows the general population growth pattern and is increasing in the southern part of Lilongwe city. For spatial analysis, refer to Figures 12 and 13.



Legend (Area No)

Figure 9 Unplanned Settlements Population Growth in Urban Areas of Lilongwe City

Below is a brief description of the unplanned settlements in each zone:

Alimaunde (ALM) – As a large vacant area is available and with limited control, the unplanned settlements are increasing rapidly. As per City Council 2005 data, the total unplanned settlement population was 34,022. During 1995-2005, the unplanned settlement population almost doubled. The unplanned settlements are scattered without having any access to basic services. The people are basically dependent on petty jobs and seasonal cultivation.

Lumbadzi (LUM) – As this zone is near to the Airport area, it seems the unplanned settlements have grown to support the residential area. As per City Council 2005 data, the total unplanned settlement population of this zone is approx. 26,925. During 1995-2005, the unplanned settlement population in this zone almost doubled.

Mvunguti (MVN) – As this zone is near to the industrial area, the unplanned settlements are on the rise and are supporting the industrial activities. As per City Council 2005 data, the total unplanned settlement population of this zone is approx. 22,732. During 1995-2005, the unplanned settlement population in this zone almost doubled.. The people in this area are dependent on daily wages jobs supporting the industrial area.

Kanengo (KAN)- The demand for cheap labor in this industrial zone resulted in the rapid increase of unplanned settlements. As per City Council 2005 data, the total unplanned settlement population in this zone is approx. 43,904 which is the highest among the 12 zones. During 1995-2005, the unplanned settlement population in this zone almost doubled. The unplanned settlements in general are concentrated near the labour intensive industries/warehouses. The people in general are dependent on daily wages jobs supporting the industrial area.

Mariya (MRY) - Despite being near to the Industrial zone, it seems that the industrial activities have a limited influence to unplanned settlements. The unplanned settlement population in this zone seems to support the residential areas that exist in nearby zones such as Chimutu. As per City Council 2005 data, the total unplanned settlement population in this zone is low at approx. 5141 (the lowest among the zones where unplanned settlements exist). Despite the low population, during 1995-2005, the unplanned settlement population in this zone almost doubled.. The people in this area are in general dependent on petty jobs, however, few are also engaged in the formal employment sector.

Chimutu (CMT) - No unplanned settlements are reported in this zone. As most of the area is developed, with limited vacant spaces, the mushrooming of unplanned settlements in this zone is automatically controlled.

Nyama (NYM) - As per Lilongwe City Council 2005 data no unplanned settlements are reported in this zone. Despite the above data, some unplanned settlements were observed in the east of Area 10. As most of the area is developed with limited vacant spaces, the mushrooming of unplanned settlements in this zone is automatically controlled. Sporadic indigenous villages can also be observed in certain parts of Area -43.

Tsabango (TBN) - Despite housing the State House and a military establishment, this zone has a presence of unplanned settlements. As a large parcel of vacant land is available, it has provided an opportunity for poor and low income populations to settle. As per City Council 2005 data, the total unplanned settlement population in this zone is approx. 27,395. During 1995-2005, the unplanned settlement population in this zone almost doubled. The people in general are dependent on daily wages, seasonal cultivation and petty jobs.

City Centre (CCT) - No unplanned settlements are reported in this zone. As most of the area is developed, with limited vacant spaces and not much scope for labor based jobs, the mushrooming of unplanned settlements in this zone is automatically controlled.

Old Town (OTN) - Despite non availability of vacant lands and due to the many opportunities for work in the Old Town area, this zone has a presence of unplanned settlements. As per City Council 2005 data, the total unplanned settlement population in this zone is approx. 32,342. During 1995-2005, the unplanned settlement population in this zone almost doubled. As this zone has the highest population density, the unplanned settlements in general are scattered. The people in general are dependent on daily wages, and petty jobs.

Chinsapo (CSP) - This is an outer area or undeveloped area of the city with the availability of a large parcel of customary (uncontrolled) land. A low supply of housing along with poverty resulted in mushrooming of unplanned settlements in this zone. As per City Council 2005 data, the total unplanned settlement population in this zone is approx. 42,682 which is the second highest among the 12 zones. During 1995-2005, the unplanned settlement population in this zone almost doubled. The people in general are dependent on cultivation and petty jobs.

Ngwenya (NWY) - Due to the availability of a large parcel of uncontrolled land, the low supply of housing, serviced land and poverty resulted in mushrooming of unplanned settlements in this zone. As per City Council 2005 data, the total unplanned settlement population in this zone is approx. 42,619 which is the third highest among the 12 zones. During 1995-2005, the unplanned settlement population in this zone almost doubled. In this zone, the unplanned settlements are concentrated but are spreading informally in vacant available areas. The people in general are dependent on cultivation and petty jobs.

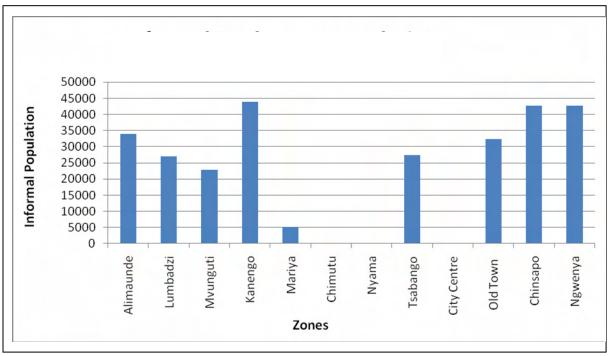


Figure 10 Unplanned Settlements Population in Urban Zones in 2005

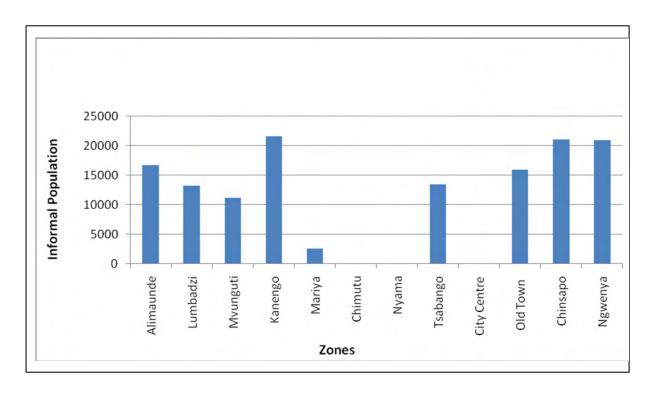


Figure 11 Increase in Unplanned Settlements Population in 10 years (1995-2005) in Urban Zones

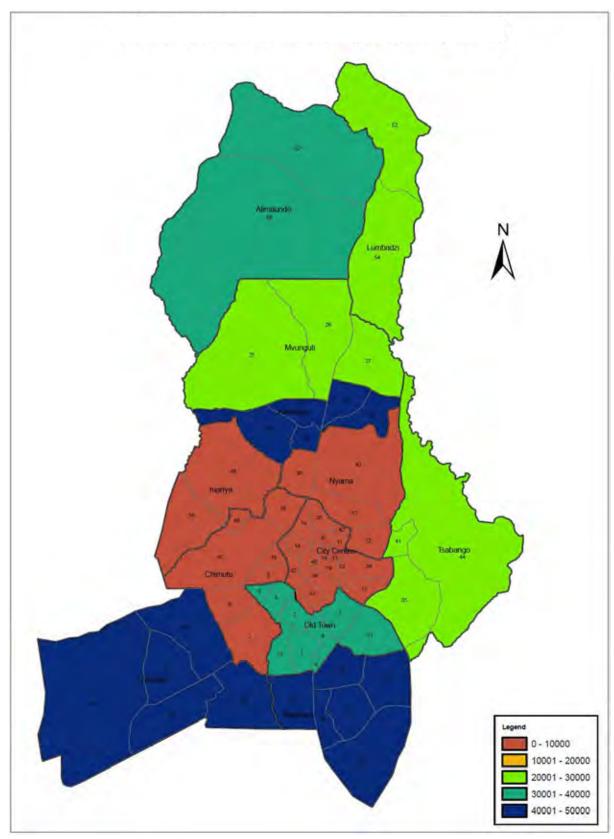


Figure 12 Unplanned Settlement Population in 2005 in Urban Zones

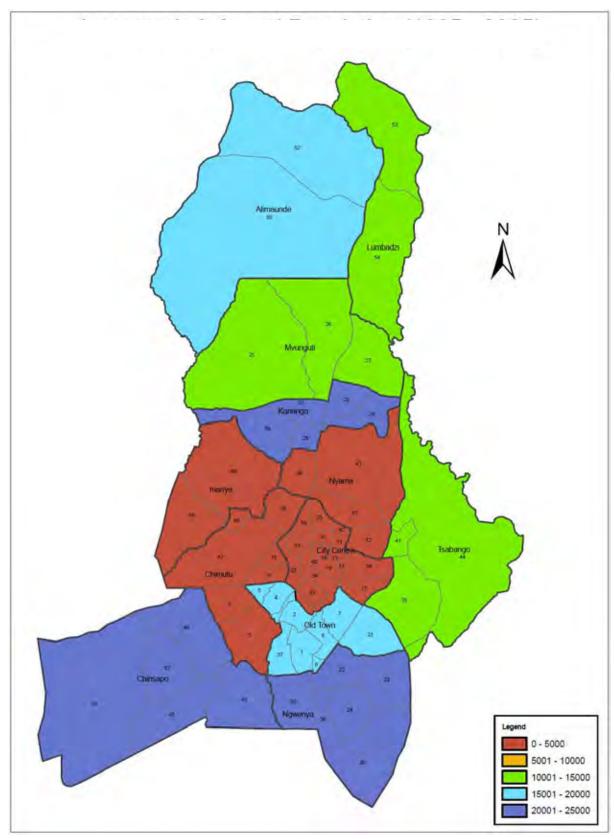


Figure 13 Increase in Unplanned Settlement Population in 10 years (1995- 2005)

#### Land use and Land Ownership in Urban Zones

In the absence of any revised development plan or Master Plan, the city of Lilongwe has been in an uncontrolled manner since 2000 when the 1986 Outline Zoning Scheme lost its effect.

For the purpose of creating a basic urban profile, the study team zoned the entire study area into 12 zones and analyzed the typical land use and land ownership in each zone. In discussion with various officials from Lilongwe City and the Physical Planning Department, the study team prepared a draft land ownership map for Lilongwe City (subject to future change following further analysis), which is presented in Figure-14. The majority of the land in the study area is owned by the following five bodies:

- Airport Development Limited (ADL)
- District Assembly (specifically the land of Area-58). This is customary land under adjudication title to individual family units.
- Lilongwe City Council (LCC)
- Ministry of Lands
- Press Properties (Free Hold) and Private Individuals.

Typical land use categories in the city are as follows

:

Typical Lar	nd uses in Lilongwe City
	Land uses
1	Low density Housing
2	Medium density housing
3	High density permanent housing
4	High density Traditional housing
5	Large Commercial Areas
6	Small Commercial Areas
7	Heavy Industrial Area
8	Light & Service Industrial Area
9	Institutional
10	Agriculture/Cultivation Area
11	Leisure & Sports Area
12	Government & State house area
13	Rivers/Water Bodies
14	Informal Settlements
15	Indigenous Villages
16	Bare Land/Open spaces
17	Forest/Green Areas

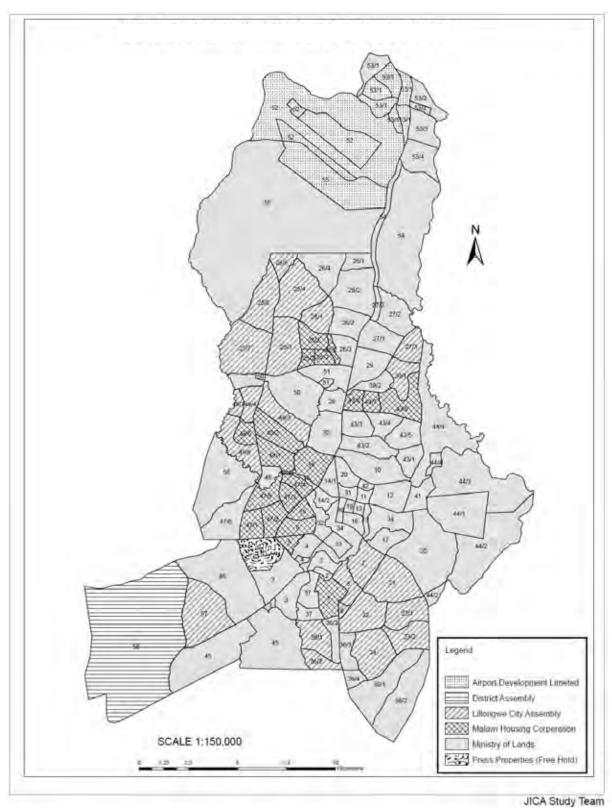


Figure 14 Land Ownership Map for Lilongwe City

The section below will discuss the typical land uses and land ownership in each zone:

Alimaunde (ALM) – This zone is principally owned by Airport Development Limited and the Ministry of Land, who own half of the total land. The typical land uses in this zone are Airport use, cultivation, indigenous villages and unplanned settlements.

Lumbadzi (LUM) –Land ownership is shared between Airport Development Limited and the Ministry of Land, who own the majority of the land. Ministry of Land areas are currently used as customary land. The typical land uses in this zone are medium density housing, cultivation, airport use, unplanned settlements and bare land (as against the forest use as designated in Outline Zoning Scheme).

Mvunguti (MVN) –Land ownership is shared between Lilongwe City Council and Malawi Housing Corporation. The majority of the land in this zone is owned by Lilongwe City Council. The typical land uses in this zone are high density traditional housing, medium density housing, bare land and unplanned settlements. Private Hospitals are also located in this zone.

Kanengo (KAN) - Most land in this zone is owned by the Ministry of land, although some is owned by Lilongwe City Council (a part of Area-39). The typical land uses in this zone are industrial use, warehouses, high density permanent housing, bare land and unplanned settlements.

Mariya (MRY) - Land ownership is shared between the Ministry of Lands, Malawi Housing Corporation, and Lilongwe City Council. The typical land uses in this zone are high density traditional, high density permanent housing, bare land and unplanned settlements.

Chimutu (CMT) – In this zone land ownership is shared between the Ministry of Lands, Malawi Housing Corporation, Press Properties, and private Owners (Freehold Property). Typical land uses in this zone are high density permanent housing, medium density housing and low density housing. The area owned by private Owners is a low density housing area.

Nyama (NYM) - This zone land is owned by the Ministry of Land and Malawi Housing Coproration (MHC). The typical land uses in this zone are low density housing, medium density housing and a police area.

Tsabango (TBN) - This zone is mainly owned by the Ministry of Land. The typical land uses in this zone are State house, Military uses, forest, unplanned settlements and bare lands.

City Centre (CCT) - This zone is mainly owned by the Ministry of Land. The typical land uses in this zone are, Business and Administrative Use, Institutional Area and Nature Sanctuary Area.

Old Town (OTN) - This zone's land is shared between the Ministry of Lands, Malawi Housing Corporation and Lilongwe City Council. The typical land uses in this zone are commercial, medium density housing, high density permanent housing and light industry (agro processing). Many informal economic activities are also observed in this area.

Chinsapo (CSP) – Land ownership in this zone is shared between the Ministry of Lands, Malawi Housing Corporation and the District Assembly. The typical land uses in this zone are cultivation, unplanned settlements, medium density housing, bare lands and indigenous villages.

Ngwenya (NWY) - This zone's land is owned by the Ministry of Lands, Lilongwe City Council and the District Assembly (Customary Land with village settlement) The typical land uses in this zone are medium density housing, high density permanent housing, bare lands and unplanned settlements.

#### **Housing Profile in the Urban Zones**

Housing development in Lilongwe City is provided by several institutions such as Malawi Housing Corporation (MHC), the City Council, the Lands Departments and private companies and individuals (either by developing plots or direct house construction for rent or sale).

NSO data and other sources showed that, about 20.3% of houses in Lilongwe city had grass thatch and 54.6% were built of un-burnt bricks (NSO, 2007:53). In 2005 only 57.7% of houses were classified as permanent (NSO, 2005:84).

MHC controls about 22% of land in the city and has 1198 houses in Lilongwe City with a total of 49, 680 applicants on the waiting list.

The City Council has supplied a total of 43, 500 plots. Of these plots 11,850 were inherited from Capital City Development Corporation (CCDC) and 400 from MHC. The remainder of 31,000 was developed by the City Council directly after taking housing development in THAs from MHC in 1992. The figure includes 6000 plots in regularised squatter areas.

The Department of Lands uses the urban development fund to develop plots in medium and low density areas. The fund does not benefit low income areas because these are meant to be serviced by the City Council.

Airport Development Limited (ADL), the major developer of the Lumbadzi sector, has 847 houses of various sizes and has already prepared land use plans for the development of over 2500 housing plots to be allocated to and developed by households and the private sector.

In general, the majority of houses in the city are built by individual households either for their own occupation, sale or rent. Rough estimates would suggest that close to 90% of houses are constructed by individual households.

Below is the description of housing in each zone:

Alimaunde (ALM) – This zone consists of Area 52 and mainly comprises the Airport area with associated runway and buildings. It also contains Area 55 which is a horticulture area. Some sporadic village settlements and farming and some institutional buildings e.g. police also exist.

Lumbadzi (LUM) – In this zone, ADL has 845 houses of medium and high density with 500 and 750 medium and high density new subdivisions. There are proposals for 2500 plots to be subdivided for

private development by ADL. Areas 53/2, 3 & 4 are heavily squatted by unplanned high density traditional settlements and a commercial development. The zone has traditional village settlements extending to Area 54.

Mvunguti (MVN) – The zone is largely a high density traditional housing area with a small area of high density permanent housing and institutional development. Part of the area has been leased for large scale private sector housing development (Kanengo Northgate). The area also houses the Malawi Institute of Management. There are sporadic village settlements and farmland.

Kanengo (KAN)- This zone is mainly an industrial area which is heavily encroached by unplanned settlements especially in areas 50, 51 and 39. Some village settlement also exists in this zone.

Mariya (MRY) – This zone consists of high density traditional housing and high density permanent area in areas 49/1 and 5. Area 56 is a squatter settlement area with village settlements e.g. Mtandire, Mtsiliza, Pearson etc. The rest of the area 49/6 is farmland. There is a proposal by MHC to construct high rise low income housing along with developing new plots in this zone.

Chimutu (CMT) – This zone is largely low, medium and high density permanent residential areas with privately and institutionally owned planned and permanent houses.

Nyama (NYM) – This zone is largely composed of low density permanent residential areas and institution development. The development is permanent standard housing, mostly privately built and government buildings.

Tsabango (TBN) - This zone is a combination of institutional, office development and low density permanent housing. In addition, certain area is used as barracks for the Malawi Defense Forces.

City Centre (CCT) - This zone consists of mix of medium density permanent housing (flats), institutional development, office space, limited commercial development, shops, banks, hospital development etc. There is a proposal for a new City Centre in this zone. Diplomatic mission offices and government offices also exist in this zone. Construction of a new Parliament building and cultural centre is currently underway.

Old Town (OTN) – This is a typical old town area with high density permanent, medium density permanent and high density traditional housing areas. Some light industry development also exists in this zone. This zone is also known for commercial activities and the central business district (CBD).

Chinsapo (CSP) – This zone has a mixed development with Institutional development, light industry, traditional housing areas and customary village development. Encroachment of housing development on farm land can be observed in this zone. Private development in form of permanent housing is a common feature.

Ngwenya (NWY) – This zone is a mixed development of traditional, permanent, institutional, light industry and customary village development. Areas 22, 23, 24 and 36 have a partly planned Traditional Housing Area (THA), which partly comprise unplanned properties and squatters. Area 36

also comprises institution, public buildings, and light industrial activity properties. Area 36 is also known for unplanned village settlements and informal plots are in general sold to private developers for housing and/or commercial business buildings. This extends to Area 38 where there is a large uncontrolled refuse dumping site for the Lilongwe City Council.

#### **Infrastructure in the Urban Zones**

The infrastructure situation in Lilongwe city is not very encouraging. Some of the areas have access to better infrastructure facilitates (e.g. the central region) while others are still waiting for the better services.

Water in Lilongwe is supplied by Lilongwe Water Board and the spatial coverage of Lilongwe Water Board supply was about 72% in 2007 and 75% in 2008. The Integrated Household Survey Report (NSO, 2005:87) shows that although 95.4% of the households in Lilongwe City have access to an improved water source, most of them (79.5%) accessed water via communal stand pipes (kiosks) while only 9.6% had piped water into their homes. The remainder got water from boreholes (6.3%), or unprotected wells or rivers (4.5%).

Kiosks are owned by the Board, water users associations (WUAs), community committees, or individuals. Each kiosk is designed to serve 50 households or 250 people. There are approximately 566 kiosks exist in the city. According to the Board, there may be 460,000 people in low income areas requiring about 1840 kiosks. However, the current number of kiosks serves only about 141,500 people.

The sanitation system in Lilongwe city is not very good. As per the various sources and discussion with the Health Directorate at Lilongwe City Council about only 9% of the households are currently served by the sewerage system, while about 20% households are connected by septic tanks and the majority i.e. 71% of the households are dependent on pit latrines. Many houses built on single plots in low income areas share the use of pit latrines; a recent study found that, of the low income households studied in Lilongwe, only 14.3% had exclusive use of their own toilets, the rest having to share with one or more other households. Other studies such as Kariuki (2003) on water and sanitation services to low income areas, in 2003 found serious neglect in low income areas.

In terms of health facilities, Lilongwe city has four major hospitals: Kamuzu Central (Area 33), Bwaila (bottom Area 1), Likuni Mission (Area 57) and Daye Yong hospitals (Area 27). There are also several public and private health centres and clinics.

Below is a description of basic infrastructure in each zone:

Alimaunde (ALM) – This zone is serviced by a tarmac road up to the airport terminal and warehousing area. The other roads are either earthen or small muddy lanes. Water supply is reticulated by the Lilongwe Water Board around the airport areas, while the villages are serviced by borehole, streams and shallow wells. Most of the area is accessible to the cell phone network. In terms of sanitation, households are mainly dependent on sewerage, pit latrines and septic tanks. Apart from a partial sewerage network, safe sanitation coverage is very low.

Lumbadzi (LUM) – The area is partly serviced in the ADL housing estate with roads, water, and electricity. However the other areas, especially the unplanned settlements and villages, are largely un-serviced and are dependent on earthen roads for accessibility, fetching water from boreholes, wells, kiosk and rivers. The entire area is accessible by cell phone network. In terms of sanitation, approx. one-third of the population is served with safe sanitation (flush toilets).

Mvunguti (MVN) – Apart from the M1 road and the main distributor roads, the entire zone is serviced by earth roads. Water supply is partly accessible in the areas managed by LCC, and the institutional areas while the traditional areas are serviced by boreholes, wells and streams. Sanitation is mainly pit latrines and septic tanks. A low percentage of households has access to safe sanitation (flush toilets).

Kanengo (KAN) - In this zone, Areas 28 and 29 are fully serviced by sealed paved roads, water, sewerage and electricity. However, the other areas are either not serviced or partially serviced with earth roads or unpaved roads. Water supply is accessible in certain areas with the remainder being dependent on boreholes, wells and streams. The entire zone is fully covered by the cellular network. In terms of sanitation, except in Area-29, there is a low coverage of safe sanitation in the zone.

Mariya (MRY) – In this zone, Areas 49/1, 4, 5 are serviced by earth and gravel roads; the other areas do not have well developed road networks. Water supply is partly provided by Lilongwe Water Board but some areas are still dependent on boreholes, wells, kiosk and streams. Area-49 has access to safe sanitation and water supply but in other areas safe sanitation coverage is low. Electricity is partly provided and a cell phone network exists.

Chimutu (CMT) – In general this zone is well serviced by tarmac roads and drains but, some roads do require major rehabilitation and maintenance. Sewerage networks do exist in some areas with the remainder dependent on septic tanks. In general this area is fully covered with safe sanitation. Water reticulation is provided by LWB to the entire area. Electricity is fully reticulated and both telephone and cellular networks exist.

Nyama (NYM) – This zone has a well developed road network to bitumen standard. In addition, new road networks are under construction. Electricity supply is reticulated and is being extended to new areas. Water is reticulated by LWB and being extended to new areas. Telephone and cellular networks are both available. Sewerage and septic tanks are accessible and the entire area can be termed as safe sanitation area. However, the unplanned settlements in the east of Area 10 are dependent on pit latrines and bore wells.

Tsabango (TBN) – In this zone, roads have been developed in most areas. Water supply and electricity are fully serviced/ provided. Telephone and cellular networks are both good and a sewerage system is in place. Refuse collection disposal and is regular in this area. Despite the good infrastructure services, the unplanned settlements in this zone still don't have an access to safe basic amenities.

City Centre (CCT) –Being the major service, administrative and commercial centre in the city, this zone is comparatively better than most other zones. The water supply and electricity networks are in

place and telephone and cellular phone networks are available. The roads are paved though some parts of the network still need to be developed. Sewerage network is partly available.

Old Town (OTN) – In this zone the road network is partially developed and also requires upgrading in some areas. Drainage is partially developed. As a major commercial and business centre, the water supply system is fully reticulated and the electricity grid well developed. In terms of sanitation, sewerage and septic tanks are in use and the refuse collection system is partially developed. Telephone and cellular phone networks are available.

Chinsapo (CSP) – The infrastructure services in this zone are partially developed. The majority of the roads are earthen, and muddy. In terms of sanitation, septic tanks and pit latrines are commonly used in this zone. However, not all households have a safe access to sanitation. Electricity is not fully reticulated. Water is supplied by Lilongwe Water Board and Central Region Water Boards to parts of this zone with boreholes and wells covering other areas. Scattered dumping of waste is common and waste is irregularly collected. Telephone and cellular networks are available.

Ngwenya (NWY) – This zone is partly serviced with roads without proper drains. The Main M1 road is the main primary road to this zone and other areas are either earthen roads or narrow muddy lanes. Electricity is accessible in certain areas. Water supply has been provided in certain areas with the remainder dependent on boreholes, shallow wells and kiosks. Sanitation comprises a mixture of septic tanks and pit latrines while refuse collection is irregular and privately arranged. Telephone and cellular networks are available.

#### **Major Issues and Suggestions for the Urban Zones**

Below is the brief description of existing major issues along with major suggestions for each zone:

Alimaunde (ALM) – The large vacant available area needs to be developed in a planned manner. The existence of an airport in this zone is not utilized to its full potential and there is a need to plan for its maximum utilization. The entire area needs development and support with reliable infrastructure services. There is also a need to survey and prepare a resettlement/compensation plan and policies for indigenous village settlements. For feasible and economic development, there is an urgent need to increase density in the area.

Lumbadzi (LUM) – A large vacant area is still available and not utilized to its full potential, and there is a need formulate land use maps and policies for development. This zone is next to the airport area, but the potential advantage of the proximity to the airport is not utilized to its full potential. There is therefore a need to plan for its maximum utilization. As a large number of households are living in the villages and unplanned settlements, there is a need is to formulate compensation policies and resettlement plans for such encroached areas. For feasible and economic development, there is an urgent need to increase the density of the area in a planned manner. In the absence of any planning and polices, the entire vacant area will be haphazardly occupied by the unplanned settlements.

Mvunguti (MVN) – As this zone consist of a large number of unplanned settlements and high density traditional housing areas, a specific policy needs to be formulated for the upgrading of housing and socio economic conditions of the rapidly increasing population especially in the high density

traditional areas. Policies and plans need to be formulated for the encroachment, resettlement and outstanding compensation issues. Considering the development of an industrial area and the related activities in the area next to this zone, there is a need to plan for the type of housing that will be required in this zone.

Kanengo (KAN)- A policy with certain incentives needs to be formulated for the promotion of investment in this Industrial Area Zone. The need is to convert this region from "Storage" activities (warehouses) to "Manufacturing" activities. Strategies and policies also need to be developed to regulate the growth of unplanned settlements. The options of compensation and resettlements or improving the housing situation may be looked into in detail.

Mariya (MRY) – This zone is one of the most rapidly developing areas with a lack of layout plans. The informal and haphazard division and sub-division of plots leads to chaos. Thus there is a need to conduct a detailed survey and plan accordingly. Considering this zone's proximity to the Industrial area, the type of housing in this zone also needs to be planned as per Industrial activities and requirements. Encroachment and unplanned settlements need to be regulated or controlled. This may require extensive upgrading, compensation and resettlement schemes.

Chimutu (CMT) – This zone is a very low density area with over-sized plots. Policies to increase the population density of the area need to be promoted. Options such as permission for 2-3 storey housing, more area coverage, better Floor Area Ratio (FAR) along with other incentives may be promoted.

Nyama (NYM) – This zone is very low density area with over-size plots. Policies to increase the density in this zone need to be promoted. Options such as permission for 2-3 storey housing, and more area coverage should be promoted. The development of more institutions also needs to be promoted for further development of this zone and city.

Tsabango (TBN) – This zone consists of a large vacant and underutilized area of land, which needs to be planned and developed in an orderly manner. The need is to formulate effective policies and plan for the development of this zone. There is also a need to increase the density in a planned manner. In addition, this zone has lot of scope for the development of recreational activities.

City Centre (CCT) – This zone is under developed with a large number of plots still vacant. With an existence of natural areas, this zone has good potential to be developed as a major recreational centre in the city. To avoid being a dead space during the evening, there is also a need to develop other activities with mixed land use in the City Centre area. This will make the city centre area livelier throughout the day.

Old Town (OTN) – With a mix of many activities, this zone is facing many typical problems faced by a typical old area such as traffic circulation, parking, illegal and haphazard commercial development etc. Congestion and overcrowding is another major issue. Unfortunately, open spaces and parks are missing in the highest population density area. For better management, certain activities need to be restricted/ relocated to other zones.

Chinsapo (CSP) – With the addition of area 58, there is conflict between urban and rural land and its development. Being a critical issue, the development needs to occur in a phased manner to satisfy both communities. Land ownership and regulation are still an issue and need to be resolved for planned development to occur. With an existence of indigenous villages, the area needs to be planned inventively. The large vacant areas need to be planned effectively for further development. For feasible development, there is an urgent need for increasing population density of the area. Rapidly growing urban sprawl also needs to regulated and planned accordingly. An effective resettlement and compensation scheme need to be formulated.

Ngwenya (NWY) – In this zone, informal land subdivision and encroachments on road reserves need to be regulated and planned accordingly. Common features such as land with no proper roads, no drains, and no layout plans for some areas resulted in scattered development. Rapid growing urban sprawl needs to be regulated and planned.

## **APPENDIX 3**

Result of Traffic Survey and Road Inventory Survey in Lilongwe City

### 1. Result of Vehicle Traffic Count Survey

Vehicle traffic count survey was conducted with 10 locations on 3 continuous weekdays and one weekend during  $29^{th}$  July to  $2^{nd}$  August in 2009 by JICA Study Team.

Table AT.1 Result of Traffic Count Survey in Lilongwe City (16 Hours) (1/3)

	AI	.1 R				Tr	at	Ti(	: <b>(</b>	<b>'</b> 01	ın					in	L	ile	ng	gw	e (	Cit	y	(1	6	H	u	rs)	()	1/3	_	
Un-motorized Vehicles	Pedestrian		14	98	8			181	205			2,537	758	1,907		2,594	1,014	1,696		1,154	2,016			1,591	985	1,219	1,338		661	296	1,251	775
Un-motori	Bicycle		46	285				300	311			211				261	342	361		615	787				406				457			234
Total of Motorized			1,398	3,648	3,773	,	1,552	3,873	4,263			9,524	11,035	4,670		10,329	15,627	6,788		1,754	1,768			9,199	8,382	9,207	8,381		6,375	12,870	9,032	11,025
nicle	Medium - Heavy & Full Heavy Truck Trailer Truck		7	187	190	,	56		127			439	999	451		601	1,506	1,017		43	22			153	125	144	119		94	124	78	126
III : Heavy Vehicle	Medium - Heavy Truck		48	182	214			133	136			464	633	477		722	1,412	962		268	202			370	272	450	206		92	388	162	462
I	Sng		12	74	80		<b>∞</b>	87	85			132	251	149		243	290	355		48	09			150	164	131	153		25	117	129	121
	Mini Bus			755				915	1,116			2,431	2,558	421		2,837	3,455	736		218	211			1,558	1,259	1,381	1,018		531	3,346	981	3,058
II : Light Vehicle	Light Truck		54	233				142	241			522	570	394		495	703	470		432	310			341	475	465	391		94	213	209	286
П:	Saloon/Pickup /Wagon		1,172	2,141	2,222		1,020	2,396	2,500			5,431	6,240	2,705		5,356	7,815	3,323		710	940			6,517	6,002	6,507	6,410		5,573	8,607	7,449	6,929
I: Motorcycle	Motorbike Trailer		1	7	7	,		19	18			21	22	18		16	27	11		13	14			4	<b>∞</b>	17	6		0	0	0	0
I: Mo	Motorcycl e		29	69	63		14	28	40			8	97	54		59	119	80		22	6			107	78	112	75		30	75	22	43
Lood	Noau	M1 & Airport Access Weekday	Road to Airport	Road to Lilongwe	1 Road to Kasungu	Weekend	Road to Airport	Road to Lilongwe	Road to Kasungu	M1 & M14	Weekday	Road to Lilongwe	Road to Kasungu	2 Road to Salima	Weekend	Road to Lilongwe	Road to Kasungu	Road to Salima	Salima Road, City Border	3 Weekday	Weekend	M1 & Presidential Way	Weekday	Road to Old town	Road to Capital hill	Road to Kanengo	4 Road to Munzu	Weekend	Road to Old town	Road to Capital hill	Road to Kanengo	Road to Munzu
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Table AT.1 Result of Traffic Count Survey in Lilongwe City (16 Hours) (2/3)

| AI.                           | 1 1/                                                                                                   | esu                                                                                                                                                                 | Il                                                                                                   | UΙ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                        | Road to City Center                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Road to Paul Kagome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                               | Motorcyc  Motorbike   Saloon/Pickup   Light Truck   Mini Bus   Bus   Medium -   Heavy & Full   Bicycle | Motorcycl     Motorbike     SaloonPickup     Light Truck     Mini Bus     Bus     Medium - Heavy Truck     Heavy Truck     Trailer Truck     Bicycle     Pedestrian | Motorcyc  Motorbike Saloon/Pickup   Light Truck   Mini Bus   Bus   Medium -   Heavy & Full   Bicycle | Motorcyc  Motorbike   SaloonPickup   Light Truck   Mini Bus   Bus   Heavy Truck   Trailer Truck   Mini Bus   Heavy Truck   Trailer Truck   Trailer Truck   Heavy Truck   Trailer Truck   Trailer Truck   Heavy & Full   Bicycle   Pedestrian   Pedestrian | Motorcycl<br>e         Motorbike<br>Trailer         Saloon/Pickup<br>(Magon)         Light Truck<br>(Magon)         Mini Bus<br>(Magon)         Bus<br>(Magon)         Medium -<br>Heavy Truck<br>(Magon)         Heavy Truck<br>(Trailer Truck)         Heavy Truck<br>(Trailer Truck)         Pedestrian           Weekday<br>Road to Lilongwe<br>Road to Mchinji         50         10         2,612<br>3,144         296<br>21         697<br>21         54<br>292         697<br>918         54<br>669         137<br>21         88<br>4,765         3,944<br>4,765         607<br>4,765         304<br>4,765         409<br>4,765         409<br>4,765         409<br>4,765         196<br>4,765         196<br>4,765 | Motorcycl<br>e         Motorbike<br>Trailer         Saloon/Pickup<br>(Magon)         Light Truck<br>(Magon)         Mini Bus<br>(Magon)         Bus<br>(Magon)         Medium-<br>Heavy Truck<br>(Trailer Truck)         Heavy & Full<br>(Trailer Truck)         Heavy Truck<br>(Trailer Truck)         Predestrian           M12 & Western Bypass         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         3753         3753         196 | Motorcycl<br>e         Motorbike<br>Trailer         Saloon/Pickup<br>(Magon)         Light Truck<br>Mini Bus         Mini Bus         Bus         Medium -<br>Heavy Truck<br>Trailer Truck         Heavy EvIII<br>Trailer Truck         Heavy EvIII<br>Trailer Truck         Pedestrian           M12 & Western Bypass         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         373         375         409           Road to Lilongwe         91         11,686         179         526         38         76         2,664         33         342 | Motorcycl<br>e         Motorbike<br>Trailer         Saloon/Pickup<br>(Amagon)         Light Truck<br>Mini Bus         Mini Bus         Bus         Medium -<br>Heavy Truck<br>Trailer Truck         Heavy & Full<br>Trailer Truck         Heavy Truck<br>Trailer Truck         Heavy Truck<br>Trailer Truck         Pedestrian           M12 & Western Bypass         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         373         374         96           Road to Lilongwe         91         114         2,664         33         88         87         46         2,664         33         89           Road to Mchiniji         114         20         2,699         176         73         89         46         5,664         33         39 | Motorcycl<br>e         Motorbike<br>Trailer         Saloon/Pickup<br>(Magon)         Light Truck<br>(Magon)         Mini Bus         Bus         Medium -<br>Heavy Truck<br>(Trailer Truck         Heavy Full<br>(Trailer Truck         Heavy Full<br>(Trailer Truck         Bicycle         Pedestrian           M12 & Western Bypass         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         373         196           Road to Lilongwe         91         11         1,686         179         526         38         87         46         2,664         333         344         403         389           Road to Mchiniji         114         20         2,639         176         25         475         2,228         29         2,298         29         2,298         29         2,298         29         2,29         2,29         2,29         2,29         2,29         2,29 <td>M12 &amp; Western Bypass         Motorcycl<br/>Fall         Motorbik of<br/>Fall         Saloon/Pickup<br/>Agon         Light Truck<br/>Agon         Mini Bus<br/>Heavy Truck<br/>Fall         Bus<br/>Heavy Truck<br/>Heavy Truck<br/>Fall         Medium -<br/>Heavy Truck<br/>Trailer Truck<br/>Fall         Heavy Full<br/>Faller Truck<br/>Fall         Bicycle         Pedestrian           Weekday<br/>Road to Lilongwe         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         91         11         1,686         179         526         38         87         46         2,664         333         342           Road to Lilongwe         91         11         1,686         179         526         38         87         46         2,664         333         342           Road to Lilongwe         93         15         2,123         135         475         46         2,528         3,944         403         389           MI &amp; MI2         93         2,123         2,123         3,135         47         5,528         3,04         <t< td=""><td>Motorcycl<br/>e         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full Heavy &amp; Full Heavy &amp; Full Frailer Truck         Bicycle         Pedestrian           M12 &amp; Western Bypass         M12 &amp; Western Bypass         S0         10         2,612         2.96         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         379         196           Weekend         91         11         1,686         179         526         38         87         46         2,664         333         342           Road to Lilongwe         91         11         1,686         176         73         53         94         55         3,944         403         389           Kaunda road         93         15         2,123         135         2,123         475         2,528         39         2,928         3,944         403         &lt;</td><td>Motoreyel<br/>e         Motoreyel<br/>Trailer         Motoreyel<br/>Trailer         Motoreyel<br/>Full         Motoreyel<br/>East of Motoreyel         Motoreyel<br/>Full         Motoreyel<br/>Trailer         Motoreyel<br/>Trailer         Motoreyel<br/>Trailer         Motoreyel<br/>Trailer         Medium -<br/>Trailer         Heavy &amp; Full<br/>Trailer         Heavy &amp; Full         Medium -<br/>Trailer         Heavy &amp; Full<br/>Trailer         Medium -<br/>Trailer         Heavy Truck<br/>Trailer         Trailer Truck<br/>Trailer         Pedestrian         Pedestrian           Weekday<br/>Road to Mchinji         57         3         3.144         292         918         62         183         106         4,765         752         409           Kaunda road to Lilongwe         91         11         1,684         179         669         21         112         72         3,753         379         196           Road to Mchinji         91         11         1,684         176         73         53         94         4,765         752         409           Road to Mchinji         91         15         2,123         373         475         2,564         333         342           Road to Mchinji         91         2,123         1,57         2,564         33         3,94         403         389           Manda to Allong town</td><td>Motorcycl<br/>e         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium -<br/>Heavy Truck         Medium -<br/>Trailer Truck         Medium -<br/>Heavy Truck         Heavy &amp; Full<br/>Trailer Truck         Bicycle         Pedestrian           Weekday<br/>Weekday<br/>Kaunda road         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Mchinji         57         3         3,144         292         918         62         112         72         476         752         409           Kaunda road         41         7         2,634         197         669         21         112       
 72         3,753         379         196           Weekend<br/>Road to Lilongwe         91         11         1,686         179         526         38         87         46         3,753         394         403         389           Road to Lilongwe         91         11         1,686         176         52         34         46         2,664         333         342           Road to Lilongwe         93         15         2,123         1,37         2,13         3,14         403         389     <td>Motorcycle (Author)         Motorcycle (Author)         Saloan/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full (Author)         Heavy Fruck (Trailer Truck)         Medium - Heavy &amp; Full (Author)         Heavy Fruck (Trailer Truck)         Bicycle (Author)         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,66         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road to Lilongwe         41         7         2,634         197         669         21         112         72         3,553         379         196           Road to Mchinji         114         20         2,634         179         526         37         47         4,765         3,544         403         389           Kaunda road to Mchinji         114         20         2,699         176         73         2,54         47         1,5         2,928         3,944         403         389           MI &amp; M12         M. &amp; M12         A. &amp; M12         A. &amp; M12         A. &amp; M1</td><td>Motorcycl         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Heavy &amp; Full         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2.612         2.96         697         54         137         Rab         3.944         607         3.04           Road to Lilongwe         57         3         3.144         2.92         918         62         183         106         4.765         752         409           Road to Lilongwe         57         3         3.144         2.92         918         62         183         106         4.765         752         409           Kaunda road         41         7         2.634         197         669         21         112         72         3,444         433         342           Road to Lilongwe         91         114         20         2.634         197         669         21         112         72         3,444         433         342           Road to Lilongwe         91         11         11         11         11         11         11         11         11&lt;</td><td>Motor cycle         Motor billise         Saloom Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Pedestrian           Weekday Road to Lilongwe         50         10         2,612         2,634         197         669         21         183         196         4,765         752         449           Road to Mchinji         57         3,144         2,634         197         669         21         112         72         3,753         3,753         3,94         607         3,04           Road to Mchinji         114         20         2,634         179         526         38         87         46         2,664         333         342           Road to Mchinji         114         20         2,699         176         733         53         47         1,58         394         493         389           Meekday         114         20         2,699         1,68         1,597         52         47         1,68         1,684         8,846         8</td><td>Motorcycl<br/>e         Motorcycl<br/>Trailer         <th< td=""><td>Motorcycl         Motorcycl         <t< td=""><td>Motorcycle         Motorcycle         Motorcycle         Motorcycle         Motorcycle         Light Truck         Mini Bus         Bus         Medium         Heavy &amp; Full         Bicycle         Podestrian           ML2 &amp; Western Bypass         Trailer         Trailer         Trailer         Trailer         Trailer         Trailer         Mini Bus         Bus         Medium         Heavy Truck Trailer Truck         Bicycle         Podestrian           Weekday         Road to Mchinji         57         3,144         2,612         2,69         697         64         137         88         3,944         607         3,49           Road to Mchinji         11         7         2,634         176         526         918         62         118         106         4,765         3,753         3,94         409         334           Road to Lilongwe         91         11         1,686         176         526         36         36         36         34         40         334         349           Road to Lilongwe         91         11         1,686         176         526         47         15         2,028         394         433         342           Road to Lilongwe         92         1,578<!--</td--><td>Motorcycl<br/>e         Motorcycle<br/>Trailer         Motorcycle<br/>Arabier         Motorcycle<br/>Ara</td><td>Motorcycl Motor Side Saloon/Pickur Bypass         Trailer Truck Trailer         Mini Bus Mcekday         Bus Medium - Heavy Truck Trailer Truck Heavy Truck Trailer Truck Raunda road to Mchinji By Saloon By Saloon Mchinji By Saloon By Salo</td><td>Motorcycl<br/>Redding         Motorcycl<br/>Frailer         Motorcycl<br/>Argan         Motorcycl<br/>Argan         Light Truck         Mini Bus         Bus         Medium -<br/>Heavy Truck         Heavy Full<br/>Truck         Heavy Evall<br/>Truck         Heavy Full<br/>Truck         Bicycle         Pedestrian           MIZ &amp; Western Bypass         50         10         2,612         2,96         607         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         72         409         196           Kaunda road         Weekend         111         1,686         179         669         21         112         72         3,753         379         196           Road to Mchinji         114         2         2,634         176         73         53         47         5,64         33         342           MIR &amp; Miz &amp;</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Minchike         Light Truck         Min Bus         Bus         Medium-         Heavy Truck         Trailer Truck         Repetation         Minchika         Medium-         Heavy Truck         Trailer Truck         Minchika         Minchika</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Minal Bus         Bus         Medium-         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,92         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         133         3,94         607         3,753         379         196           Road to Mchinji         11         1,686         179         526         38         87         46         2,664         33         342           Road to Mchinji         11         1,686         179         52         47         1,6         2,64         3,755         379         196           Mila Mula         11         1,687         2,13         475         2,2         47         1,5         2,64         3,44         3,4           Road to Kasungu         53</td><td>Mail &amp; Western Bypass         Motorcyel Motorbik of Carte Main         Salom/Picking         Light Track         Mini Bus         Bus         Medium - Henry &amp; Full         Henry Fruck Fruiler Track         Bicycle         Predestrian           Mul2 &amp; Western Bypass         50         110         2.612         2.96         6.97         54         137         88         3.944         607         3.04           Randa to Mchinji         57         3         3.144         2.92         918         6.2         118         7.2         3.944         607         3.94           Randa to Mchinji         114         2         2.699         176         5.35         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09<!--</td--><td>Motorycel Motorycel Motorykke SulcomPickup         Motorycel Motorycel Motorykke SulcomPickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Bicycle         Petestrian           MIZ &amp; Western Bypass         c         Trailer         Avgagon   
     Light Truck         Mini Bus         81         13         88         3.944         607         304           Read to Mchinji         57         3         3.144         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         57         3         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         407         394           Read to Mchinji         13         16         2.123         13         475         2.644         443         33         447         134</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motoreyed         Motoreyed         Motoreyed         Motoreyed         Light Truck         Mini Bas         Bas         Bas         Meddium         Hensy Fried         Frequent         Bissych         Pedestrian           Motediar         6         7         34         697         54         137         88         3,944         607         344           Road to Lilongwe         50         10         2,612         2,96         697         54         137         88         3,944         607         344           Road to Lilongwe         50         1         2,612         2,69         176         52         38         87         44         607         3,344         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944</td><td>Motor of the control of the</td></td></td></t<></td></th<></td></td></t<></td> | M12 & Western Bypass         Motorcycl<br>Fall         Motorbik of<br>Fall         Saloon/Pickup<br>Agon         Light Truck<br>Agon         Mini Bus<br>Heavy Truck<br>Fall         Bus<br>Heavy Truck<br>Heavy Truck<br>Fall         Medium -<br>Heavy Truck<br>Trailer Truck<br>Fall         Heavy Full<br>Faller Truck<br>Fall         Bicycle         Pedestrian           Weekday<br>Road to Lilongwe         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         91         11         1,686         179         526         38         87         46         2,664         333         342           Road to Lilongwe         91         11         1,686         179         526         38         87         46         2,664         333         342           Road to Lilongwe         93         15         2,123         135         475         46         2,528         3,944         403         389           MI & MI2         93         2,123         2,123         3,135         47         5,528         3,04 <t< td=""><td>Motorcycl<br/>e         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full Heavy &amp; Full Heavy &amp; Full Frailer Truck         Bicycle         Pedestrian           M12 &amp; Western Bypass         M12 &amp; Western Bypass         S0         10         2,612         2.96         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         379         196           Weekend         91         11         1,686         179         526         38         87         46         2,664         333         342           Road to Lilongwe         91         11         1,686         176         73         53         94         55         3,944         403         389           Kaunda road         93         15         2,123         135         2,123         475         2,528         39         2,928         3,944         403         &lt;</td><td>Motoreyel<br/>e         Motoreyel<br/>Trailer         Motoreyel<br/>Trailer         Motoreyel<br/>Full         Motoreyel<br/>East of Motoreyel         Motoreyel<br/>Full         Motoreyel<br/>Trailer         Motoreyel<br/>Trailer         Motoreyel<br/>Trailer         Motoreyel<br/>Trailer         Medium -<br/>Trailer         Heavy &amp; Full<br/>Trailer         Heavy &amp; Full         Medium -<br/>Trailer         Heavy &amp; Full<br/>Trailer         Medium -<br/>Trailer         Heavy Truck<br/>Trailer         Trailer Truck<br/>Trailer         Pedestrian         Pedestrian           Weekday<br/>Road to Mchinji         57         3         3.144         292         918         62         183         106         4,765         752         409           Kaunda road to Lilongwe         91         11         1,684         179         669         21         112         72         3,753         379         196           Road to Mchinji         91         11         1,684         176         73         53         94         4,765         752         409           Road to Mchinji         91         15         2,123         373         475         2,564         333         342           Road to Mchinji         91         2,123         1,57         2,564         33         3,94         403         389           Manda to Allong town</td><td>Motorcycl<br/>e         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium -<br/>Heavy Truck         Medium -<br/>Trailer Truck         Medium -<br/>Heavy Truck         Heavy &amp; Full<br/>Trailer Truck         Bicycle         Pedestrian           Weekday<br/>Weekday<br/>Kaunda road         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Mchinji         57         3         3,144         292         918         62         112         72         476         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         379         196           Weekend<br/>Road to Lilongwe         91         11         1,686         179         526         38         87         46         3,753         394         403         389           Road to Lilongwe         91         11         1,686         176         52         34         46         2,664         333         342           Road to Lilongwe         93         15         2,123         1,37         2,13         3,14         403         389     <td>Motorcycle (Author)         Motorcycle (Author)         Saloan/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full (Author)         Heavy Fruck (Trailer Truck)         Medium - Heavy &amp; Full (Author)         Heavy Fruck (Trailer Truck)         Bicycle (Author)         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,66         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road to Lilongwe         41         7         2,634         197         669         21         112         72         3,553         379         196           Road to Mchinji         114         20         2,634         179         526         37         47         4,765         3,544         403         389           Kaunda road to Mchinji         114         20         2,699         176         73         2,54         47         1,5         2,928         3,944         403         389           MI &amp; M12         M. &amp; M12         A. &amp; M12         A. &amp; M12         A. &amp; M1</td><td>Motorcycl         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Heavy &amp; Full         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2.612         2.96         697         54         137         Rab         3.944         607         3.04           Road to Lilongwe         57         3         3.144         2.92         918         62         183         106         4.765         752         409           Road to Lilongwe         57         3         3.144         2.92         918         62         183         106         4.765         752         409           Kaunda road         41         7         2.634         197         669         21         112         72         3,444         433         342           Road to Lilongwe         91         114         20         2.634         197         669         21         112         72         3,444         433         342           Road to Lilongwe         91         11         11         11         11         11         11         11         11&lt;</td><td>Motor cycle         Motor billise         Saloom Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full Again         Heavy Truck
Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Pedestrian           Weekday Road to Lilongwe         50         10         2,612         2,634         197         669         21         183         196         4,765         752         449           Road to Mchinji         57         3,144         2,634         197         669         21         112         72         3,753         3,753         3,94         607         3,04           Road to Mchinji         114         20         2,634         179         526         38         87         46         2,664         333         342           Road to Mchinji         114         20         2,699         176         733         53         47         1,58         394         493         389           Meekday         114         20         2,699         1,68         1,597         52         47         1,68         1,684         8,846         8</td><td>Motorcycl<br/>e         Motorcycl<br/>Trailer         <th< td=""><td>Motorcycl         Motorcycl         <t< td=""><td>Motorcycle         Motorcycle         Motorcycle         Motorcycle         Motorcycle         Light Truck         Mini Bus         Bus         Medium         Heavy &amp; Full         Bicycle         Podestrian           ML2 &amp; Western Bypass         Trailer         Trailer         Trailer         Trailer         Trailer         Trailer         Mini Bus         Bus         Medium         Heavy Truck Trailer Truck         Bicycle         Podestrian           Weekday         Road to Mchinji         57         3,144         2,612         2,69         697         64         137         88         3,944         607         3,49           Road to Mchinji         11         7         2,634         176         526         918         62         118         106         4,765         3,753         3,94         409         334           Road to Lilongwe         91         11         1,686         176         526         36         36         36         34         40         334         349           Road to Lilongwe         91         11         1,686         176         526         47         15         2,028         394         433         342           Road to Lilongwe         92         1,578<!--</td--><td>Motorcycl<br/>e         Motorcycle<br/>Trailer         Motorcycle<br/>Arabier         Motorcycle<br/>Ara</td><td>Motorcycl Motor Side Saloon/Pickur Bypass         Trailer Truck Trailer         Mini Bus Mcekday         Bus Medium - Heavy Truck Trailer Truck Heavy Truck Trailer Truck Raunda road to Mchinji By Saloon By Saloon Mchinji By Saloon By Salo</td><td>Motorcycl<br/>Redding         Motorcycl<br/>Frailer         Motorcycl<br/>Argan         Motorcycl<br/>Argan         Light Truck         Mini Bus         Bus         Medium -<br/>Heavy Truck         Heavy Full<br/>Truck         Heavy Evall<br/>Truck         Heavy Full<br/>Truck         Bicycle         Pedestrian           MIZ &amp; Western Bypass         50         10         2,612         2,96         607         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         72         409         196           Kaunda road         Weekend         111         1,686         179         669         21         112         72         3,753         379         196           Road to Mchinji         114         2         2,634         176         73         53         47         5,64         33         342           MIR &amp; Miz &amp;</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Minchike         Light Truck         Min Bus         Bus         Medium-         Heavy Truck         Trailer Truck         Repetation         Minchika         Medium-         Heavy Truck         Trailer Truck         Minchika         Minchika</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Minal Bus         Bus         Medium-         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,92         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         133         3,94         607         3,753         379         196           Road to Mchinji         11         1,686         179         526         38         87         46         2,664         33         342           Road to Mchinji         11         1,686         179         52         47         1,6         2,64         3,755         379         196           Mila Mula         11         1,687         2,13         475         2,2         47         1,5         2,64         3,44         3,4           Road to Kasungu         53</td><td>Mail &amp; Western Bypass         Motorcyel Motorbik of Carte Main         Salom/Picking         Light Track         Mini Bus         Bus         Medium - Henry &amp; Full         Henry Fruck Fruiler Track         Bicycle         Predestrian           Mul2 &amp; Western Bypass         50         110         2.612         2.96         6.97         54         137         88         3.944         607         3.04           Randa to Mchinji         57         3         3.144         2.92         918         6.2         118         7.2         3.944         607         3.94           Randa to Mchinji         114         2         2.699         176         5.35         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09<!--</td--><td>Motorycel Motorycel Motorykke SulcomPickup         Motorycel Motorycel Motorykke SulcomPickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Bicycle         Petestrian           MIZ &amp; Western Bypass         c         Trailer         Avgagon         Light Truck         Mini Bus         81         13         88         3.944         607         304           Read to Mchinji         57         3         3.144         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         57         3         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         407         394           Read to Mchinji         13         16         2.123         13         475         2.644         443         33         447         134</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motoreyed         Motoreyed         Motoreyed         Motoreyed         Light Truck         Mini Bas         Bas         Bas         Meddium         Hensy Fried         Frequent         Bissych         Pedestrian           Motediar         6         7         34         697         54         137         88         3,944         607         344           Road to Lilongwe         50         10         2,612         2,96         697         54         137         88         3,944         607         344           Road to Lilongwe         50         1         2,612         2,69         176         52         38         87         44         607         3,344         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944</td><td>Motor of the control of the</td></td></td></t<></td></th<></td></td></t<> | Motorcycl<br>e         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full Heavy & Full Heavy & Full Frailer Truck         Bicycle         Pedestrian           M12 & Western Bypass         M12 & Western Bypass         S0         10         2,612         2.96         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         379         196           Weekend         91         11         1,686         179         526         38         87         46         2,664         333        
342           Road to Lilongwe         91         11         1,686         176         73         53         94         55         3,944         403         389           Kaunda road         93         15         2,123         135         2,123         475         2,528         39         2,928         3,944         403         < | Motoreyel<br>e         Motoreyel<br>Trailer         Motoreyel<br>Trailer         Motoreyel<br>Full         Motoreyel<br>East of Motoreyel         Motoreyel<br>Full         Motoreyel<br>Trailer         Motoreyel<br>Trailer         Motoreyel<br>Trailer         Motoreyel<br>Trailer         Medium -<br>Trailer         Heavy & Full<br>Trailer         Heavy & Full         Medium -<br>Trailer         Heavy & Full<br>Trailer         Medium -<br>Trailer         Heavy Truck<br>Trailer         Trailer Truck<br>Trailer         Pedestrian         Pedestrian           Weekday<br>Road to Mchinji         57         3         3.144         292         918         62         183         106         4,765         752         409           Kaunda road to Lilongwe         91         11         1,684         179         669         21         112         72         3,753         379         196           Road to Mchinji         91         11         1,684         176         73         53         94         4,765         752         409           Road to Mchinji         91         15         2,123         373         475         2,564         333         342           Road to Mchinji         91         2,123         1,57         2,564         33         3,94         403         389           Manda to Allong town | Motorcycl<br>e         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium -<br>Heavy Truck         Medium -<br>Trailer Truck         Medium -<br>Heavy Truck         Heavy & Full<br>Trailer Truck         Bicycle         Pedestrian           Weekday<br>Weekday<br>Kaunda road         50         10         2,612         296         697         54         137         88         3,944         607         304           Road to Mchinji         57         3         3,144         292         918         62         112         72         476         752         409           Kaunda road         41         7         2,634         197         669         21         112         72         3,753         379         196           Weekend<br>Road to Lilongwe         91         11         1,686         179         526         38         87         46         3,753         394         403         389           Road to Lilongwe         91         11         1,686         176         52         34         46         2,664         333         342           Road to Lilongwe         93         15         2,123         1,37         2,13         3,14         403         389 <td>Motorcycle (Author)         Motorcycle (Author)         Saloan/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full (Author)         Heavy Fruck (Trailer Truck)         Medium - Heavy &amp; Full (Author)         Heavy Fruck (Trailer Truck)         Bicycle (Author)         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,66         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road to Lilongwe         41         7         2,634         197         669         21         112         72         3,553         379         196           Road to Mchinji         114         20         2,634         179         526         37         47         4,765         3,544         403         389           Kaunda road to Mchinji         114         20         2,699         176         73         2,54         47         1,5         2,928         3,944         403         389           MI &amp; M12         M. &amp; M12         A. &amp; M12         A. &amp; M12         A. &amp; M1</td> <td>Motorcycl         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Heavy &amp; Full         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2.612         2.96         697         54         137         Rab         3.944         607         3.04           Road to Lilongwe         57         3         3.144         2.92         918         62         183         106         4.765         752         409           Road to Lilongwe         57         3         3.144         2.92         918         62         183         106         4.765         752         409           Kaunda road         41         7         2.634         197         669         21         112         72         3,444         433         342           Road to Lilongwe         91         114         20         2.634         197         669         21         112         72         3,444         433         342           Road to Lilongwe         91         11         11         11         11         11         11         11         11&lt;</td> <td>Motor cycle         Motor billise         Saloom Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Medium - Heavy &amp; Full Again         Heavy Truck Trailer Truck         Pedestrian           Weekday Road to Lilongwe         50         10         2,612         2,634         197         669         21         183         196         4,765         752         449           Road to Mchinji         57         3,144         2,634         197         669         21         112         72         3,753         3,753         3,94         607         3,04           Road to Mchinji         114         20         2,634         179         526         38         87         46         2,664         333         342           Road to Mchinji         114         20         2,699         176         733         53         47         1,58         394         493         389           Meekday         114         20         2,699         1,68         1,597         52         47         1,68         1,684         8,846         8</td> <td>Motorcycl<br/>e         Motorcycl<br/>Trailer         <th< td=""><td>Motorcycl         Motorcycl         <t< td=""><td>Motorcycle         Motorcycle         Motorcycle         Motorcycle         Motorcycle         Light Truck         Mini Bus         Bus         Medium         Heavy &amp; Full         Bicycle         Podestrian           ML2 &amp; Western Bypass         Trailer         Trailer         Trailer         Trailer         Trailer         Trailer         Mini Bus         Bus         Medium         Heavy Truck Trailer Truck         Bicycle         Podestrian           Weekday         Road to Mchinji         57         3,144         2,612         2,69         697         64         137         88         3,944         607         3,49           Road to Mchinji         11         7         2,634         176         526         918         62         118         106         4,765         3,753         3,94         409         334           Road to Lilongwe         91         11         1,686         176         526         36         36         36         34         40         334         349           Road to Lilongwe         91         11         1,686         176         526         47         15         2,028         394         433         342           Road to Lilongwe         92         1,578<!--</td--><td>Motorcycl<br/>e         Motorcycle<br/>Trailer         Motorcycle<br/>Arabier         Motorcycle<br/>Ara</td><td>Motorcycl Motor Side Saloon/Pickur Bypass         Trailer Truck Trailer         Mini Bus Mcekday         Bus Medium - Heavy Truck Trailer Truck Heavy Truck Trailer Truck Raunda road to Mchinji By Saloon By Saloon Mchinji By Saloon By Salo</td><td>Motorcycl<br/>Redding         Motorcycl<br/>Frailer         Motorcycl<br/>Argan         Motorcycl<br/>Argan         Light Truck         Mini Bus         Bus         Medium -<br/>Heavy Truck         Heavy Full<br/>Truck         Heavy Evall<br/>Truck         Heavy Full<br/>Truck         Bicycle         Pedestrian           MIZ &amp; Western Bypass         50         10         2,612         2,96         607         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         72         409         196           Kaunda road         Weekend         111         1,686         179         669         21         112         72         3,753         379         196           Road to Mchinji         114         2         2,634         176         73         53         47         5,64         33         342           MIR &amp; Miz &amp;</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Minchike         Light Truck         Min Bus         Bus         Medium-         Heavy Truck         Trailer Truck         Repetation         Minchika         Medium-         Heavy Truck         Trailer Truck         Minchika         Minchika</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Minal Bus         Bus         Medium-         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,92         697         54         137         88         3,944         607  
      304           Road to Lilongwe         57         3         3,144         292         918         62         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         133         3,94         607         3,753         379         196           Road to Mchinji         11         1,686         179         526         38         87         46         2,664         33         342           Road to Mchinji         11         1,686         179         52         47         1,6         2,64         3,755         379         196           Mila Mula         11         1,687         2,13         475         2,2         47         1,5         2,64         3,44         3,4           Road to Kasungu         53</td><td>Mail &amp; Western Bypass         Motorcyel Motorbik of Carte Main         Salom/Picking         Light Track         Mini Bus         Bus         Medium - Henry &amp; Full         Henry Fruck Fruiler Track         Bicycle         Predestrian           Mul2 &amp; Western Bypass         50         110         2.612         2.96         6.97         54         137         88         3.944         607         3.04           Randa to Mchinji         57         3         3.144         2.92         918         6.2         118         7.2         3.944         607         3.94           Randa to Mchinji         114         2         2.699         176         5.35         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09<!--</td--><td>Motorycel Motorycel Motorykke SulcomPickup         Motorycel Motorycel Motorykke SulcomPickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Bicycle         Petestrian           MIZ &amp; Western Bypass         c         Trailer         Avgagon         Light Truck         Mini Bus         81         13         88         3.944         607         304           Read to Mchinji         57         3         3.144         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         57         3         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         407         394           Read to Mchinji         13         16         2.123         13         475         2.644         443         33         447         134</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motoreyed         Motoreyed         Motoreyed         Motoreyed         Light Truck         Mini Bas         Bas         Bas         Meddium         Hensy Fried         Frequent         Bissych         Pedestrian           Motediar         6         7         34         697         54         137         88         3,944         607         344           Road to Lilongwe         50         10         2,612         2,96         697         54         137         88         3,944         607         344           Road to Lilongwe         50         1         2,612         2,69         176         52         38         87         44         607         3,344         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944</td><td>Motor of the control of the</td></td></td></t<></td></th<></td> | Motorcycle (Author)         Motorcycle (Author)         Saloan/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full (Author)         Heavy Fruck (Trailer Truck)         Medium - Heavy & Full (Author)         Heavy Fruck (Trailer Truck)         Bicycle (Author)         Pedestrian           M12 & Western Bypass         50         10         2,612         2,66         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         752         409           Kaunda road to Lilongwe         41         7         2,634         197         669         21         112         72         3,553         379         196           Road to Mchinji         114         20         2,634         179         526         37         47         4,765         3,544         403         389           Kaunda road to Mchinji         114         20         2,699         176         73         2,54         47         1,5         2,928         3,944         403         389           MI & M12         M. & M12         A. & M12         A. & M12         A. & M1 | Motorcycl         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Light Truck         Mini Bus         Bus         Medium - Heavy & Full         Heavy & Full         Heavy & Full         Bicycle         Pedestrian           M12 & Western Bypass         50         10         2.612         2.96         697         54         137         Rab         3.944         607         3.04           Road to Lilongwe         57         3         3.144         2.92         918         62         183         106         4.765         752         409           Road to Lilongwe         57         3         3.144         2.92         918         62         183         106         4.765         752         409           Kaunda road         41         7         2.634         197         669         21         112         72         3,444         433         342           Road to Lilongwe         91         114         20         2.634         197         669         21         112         72         3,444         433         342           Road to Lilongwe         91         11         11         11         11         11         11         11         11< | Motor cycle         Motor billise         Saloom Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full Again         Heavy Truck Trailer Truck         Medium - Heavy & Full Again         Heavy Truck Trailer Truck         Medium - Heavy & Full Again         Heavy Truck Trailer Truck         Medium - Heavy & Full Again         Heavy Truck Trailer Truck         Pedestrian           Weekday Road to Lilongwe         50         10         2,612         2,634         197         669         21         183         196         4,765         752         449           Road to Mchinji         57         3,144         2,634         197         669         21         112         72         3,753         3,753         3,94         607         3,04           Road to Mchinji         114         20         2,634         179         526         38         87         46         2,664         333         342           Road to Mchinji         114         20         2,699         176         733         53         47         1,58         394         493         389           Meekday         114         20         2,699         1,68         1,597         52         47         1,68         1,684         8,846         8 | Motorcycl<br>e         Motorcycl<br>Trailer         Motorcycl<br>Trailer <th< td=""><td>Motorcycl         Motorcycl         <t< td=""><td>Motorcycle         Motorcycle         Motorcycle         Motorcycle         Motorcycle         Light Truck         Mini Bus         Bus         Medium         Heavy &amp; Full         Bicycle         Podestrian           ML2 &amp; Western Bypass         Trailer         Trailer         Trailer         Trailer         Trailer         Trailer         Mini Bus         Bus         Medium         Heavy Truck Trailer Truck         Bicycle         Podestrian           Weekday         Road to Mchinji         57         3,144         2,612         2,69         697         64         137         88         3,944         607         3,49           Road to Mchinji         11         7         2,634         176         526         918         62         118         106         4,765         3,753         3,94         409         334           Road to Lilongwe         91         11         1,686         176         526         36         36         36         34         40         334         349           Road to Lilongwe         91         11         1,686         176         526         47         15         2,028         394         433         342           Road to Lilongwe         92         1,578<!--</td--><td>Motorcycl<br/>e         Motorcycle<br/>Trailer         Motorcycle<br/>Arabier         Motorcycle<br/>Ara</td><td>Motorcycl Motor Side Saloon/Pickur Bypass         Trailer Truck Trailer         Mini Bus Mcekday         Bus Medium - Heavy Truck Trailer Truck Heavy Truck Trailer Truck Raunda road to Mchinji By Saloon By Saloon Mchinji By Saloon By
Salo</td><td>Motorcycl<br/>Redding         Motorcycl<br/>Frailer         Motorcycl<br/>Argan         Motorcycl<br/>Argan         Light Truck         Mini Bus         Bus         Medium -<br/>Heavy Truck         Heavy Full<br/>Truck         Heavy Evall<br/>Truck         Heavy Full<br/>Truck         Bicycle         Pedestrian           MIZ &amp; Western Bypass         50         10         2,612         2,96         607         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         72         409         196           Kaunda road         Weekend         111         1,686         179         669         21         112         72         3,753         379         196           Road to Mchinji         114         2         2,634         176         73         53         47         5,64         33         342           MIR &amp; Miz &amp;</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Minchike         Light Truck         Min Bus         Bus         Medium-         Heavy Truck         Trailer Truck         Repetation         Minchika         Medium-         Heavy Truck         Trailer Truck         Minchika         Minchika</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Minal Bus         Bus         Medium-         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,92         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         133         3,94         607         3,753         379         196           Road to Mchinji         11         1,686         179         526         38         87         46         2,664         33         342           Road to Mchinji         11         1,686         179         52         47         1,6         2,64         3,755         379         196           Mila Mula         11         1,687         2,13         475         2,2         47         1,5         2,64         3,44         3,4           Road to Kasungu         53</td><td>Mail &amp; Western Bypass         Motorcyel Motorbik of Carte Main         Salom/Picking         Light Track         Mini Bus         Bus         Medium - Henry &amp; Full         Henry Fruck Fruiler Track         Bicycle         Predestrian           Mul2 &amp; Western Bypass         50         110         2.612         2.96         6.97         54         137         88         3.944         607         3.04           Randa to Mchinji         57         3         3.144         2.92         918         6.2         118         7.2         3.944         607         3.94           Randa to Mchinji         114         2         2.699         176         5.35         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09<!--</td--><td>Motorycel Motorycel Motorykke SulcomPickup         Motorycel Motorycel Motorykke SulcomPickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Bicycle         Petestrian           MIZ &amp; Western Bypass         c         Trailer         Avgagon         Light Truck         Mini Bus         81         13         88         3.944         607         304           Read to Mchinji         57         3         3.144         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         57         3         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         407         394           Read to Mchinji         13         16         2.123         13         475         2.644         443         33         447         134</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motoreyed         Motoreyed         Motoreyed         Motoreyed         Light Truck         Mini Bas         Bas         Bas         Meddium         Hensy Fried         Frequent         Bissych         Pedestrian           Motediar         6         7         34         697         54         137         88         3,944         607         344           Road to Lilongwe         50         10         2,612         2,96         697         54         137         88         3,944         607         344           Road to Lilongwe         50         1         2,612         2,69         176         52         38         87         44         607         3,344         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944</td><td>Motor of the control of the</td></td></td></t<></td></th<> | Motorcycl         Motorcycl <t< td=""><td>Motorcycle         Motorcycle         Motorcycle         Motorcycle         Motorcycle         Light Truck         Mini Bus         Bus         Medium         Heavy &amp; Full         Bicycle         Podestrian           ML2 &amp; Western Bypass         Trailer         Trailer         Trailer         Trailer         Trailer         Trailer         Mini Bus         Bus         Medium         Heavy Truck Trailer Truck         Bicycle         Podestrian           Weekday         Road to Mchinji         57         3,144         2,612         2,69         697         64         137         88         3,944         607         3,49           Road to Mchinji         11         7         2,634         176         526         918         62         118         106         4,765         3,753         3,94         409         334           Road to Lilongwe         91         11         1,686         176         526         36         36         36         34         40         334         349           Road to Lilongwe         91         11         1,686         176         526         47         15         2,028         394         433         342           Road to Lilongwe         92         1,578<!--</td--><td>Motorcycl<br/>e         Motorcycle<br/>Trailer         Motorcycle<br/>Arabier         Motorcycle<br/>Ara</td><td>Motorcycl Motor Side Saloon/Pickur Bypass         Trailer Truck Trailer         Mini Bus Mcekday         Bus Medium - Heavy Truck Trailer Truck Heavy Truck Trailer Truck Raunda road to Mchinji By Saloon By Saloon Mchinji By Saloon By Salo</td><td>Motorcycl<br/>Redding         Motorcycl<br/>Frailer         Motorcycl<br/>Argan         Motorcycl<br/>Argan         Light Truck         Mini Bus         Bus         Medium -<br/>Heavy Truck         Heavy Full<br/>Truck         Heavy Evall<br/>Truck         Heavy Full<br/>Truck         Bicycle         Pedestrian           MIZ &amp; Western Bypass         50         10         2,612         2,96         607         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         72         409         196           Kaunda road         Weekend         111         1,686         179         669         21         112         72         3,753         379         196           Road to Mchinji         114         2         2,634         176         73         53         47         5,64         33         342           MIR &amp; Miz &amp;</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Minchike         Light Truck         Min Bus         Bus         Medium-         Heavy Truck         Trailer Truck         Repetation         Minchika         Medium-         Heavy Truck         Trailer Truck         Minchika         Minchika</td><td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Minal Bus         Bus         Medium-         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,92         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         133         3,94         607         3,753         379         196          
Road to Mchinji         11         1,686         179         526         38         87         46         2,664         33         342           Road to Mchinji         11         1,686         179         52         47         1,6         2,64         3,755         379         196           Mila Mula         11         1,687         2,13         475         2,2         47         1,5         2,64         3,44         3,4           Road to Kasungu         53</td><td>Mail &amp; Western Bypass         Motorcyel Motorbik of Carte Main         Salom/Picking         Light Track         Mini Bus         Bus         Medium - Henry &amp; Full         Henry Fruck Fruiler Track         Bicycle         Predestrian           Mul2 &amp; Western Bypass         50         110         2.612         2.96         6.97         54         137         88         3.944         607         3.04           Randa to Mchinji         57         3         3.144         2.92         918         6.2         118         7.2         3.944         607         3.94           Randa to Mchinji         114         2         2.699         176         5.35         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09<!--</td--><td>Motorycel Motorycel Motorykke SulcomPickup         Motorycel Motorycel Motorykke SulcomPickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Bicycle         Petestrian           MIZ &amp; Western Bypass         c         Trailer         Avgagon         Light Truck         Mini Bus         81         13         88         3.944         607         304           Read to Mchinji         57         3         3.144         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         57         3         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         407         394           Read to Mchinji         13         16         2.123         13         475         2.644         443         33         447         134</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motoreyed         Motoreyed         Motoreyed         Motoreyed         Light Truck         Mini Bas         Bas         Bas         Meddium         Hensy Fried         Frequent         Bissych         Pedestrian           Motediar         6         7         34         697         54         137         88         3,944         607         344           Road to Lilongwe         50         10         2,612         2,96         697         54         137         88         3,944         607         344           Road to Lilongwe         50         1         2,612         2,69         176         52         38         87         44         607         3,344         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944</td><td>Motor of the control of the</td></td></td></t<> | Motorcycle         Motorcycle         Motorcycle         Motorcycle         Motorcycle         Light Truck         Mini Bus         Bus         Medium         Heavy & Full         Bicycle         Podestrian           ML2 & Western Bypass         Trailer         Trailer         Trailer         Trailer         Trailer         Trailer         Mini Bus         Bus         Medium         Heavy Truck Trailer Truck         Bicycle         Podestrian           Weekday         Road to Mchinji         57         3,144         2,612         2,69         697         64         137         88         3,944         607         3,49           Road to Mchinji         11         7         2,634         176         526         918         62         118         106         4,765         3,753         3,94         409         334           Road to Lilongwe         91         11         1,686         176         526         36         36         36         34         40         334         349           Road to Lilongwe         91         11         1,686         176         526         47         15         2,028         394         433         342           Road to Lilongwe         92         1,578 </td <td>Motorcycl<br/>e         Motorcycle<br/>Trailer         Motorcycle<br/>Arabier         Motorcycle<br/>Ara</td> <td>Motorcycl Motor Side Saloon/Pickur Bypass         Trailer Truck Trailer         Mini Bus Mcekday         Bus Medium - Heavy Truck Trailer Truck Heavy Truck Trailer Truck Raunda road to Mchinji By Saloon By Saloon Mchinji By Saloon By Salo</td> <td>Motorcycl<br/>Redding         Motorcycl<br/>Frailer         Motorcycl<br/>Argan         Motorcycl<br/>Argan         Light Truck         Mini Bus         Bus         Medium -<br/>Heavy Truck         Heavy Full<br/>Truck         Heavy Evall<br/>Truck         Heavy Full<br/>Truck         Bicycle         Pedestrian           MIZ &amp; Western Bypass         50         10         2,612         2,96         607         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         72         409         196           Kaunda road         Weekend         111         1,686         179         669         21         112         72         3,753         379         196           Road to Mchinji         114         2         2,634         176         73         53         47         5,64         33         342           MIR &amp; Miz &amp;</td> <td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Minchike         Light Truck         Min Bus         Bus         Medium-         Heavy Truck         Trailer Truck         Repetation         Minchika         Medium-         Heavy Truck         Trailer Truck         Minchika         Minchika</td> <td>M12 &amp; Western Bypass         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Minal Bus         Bus         Medium-         Heavy &amp; Full         Bicycle         Pedestrian           M12 &amp; Western Bypass         50         10         2,612         2,92         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         133         3,94         607         3,753         379         196           Road to Mchinji         11         1,686         179         526         38         87         46         2,664         33         342           Road to Mchinji         11         1,686         179         52         47         1,6         2,64         3,755         379         196           Mila Mula         11         1,687         2,13         475         2,2         47         1,5         2,64         3,44         3,4           Road to Kasungu         53</td> <td>Mail &amp; Western Bypass         Motorcyel Motorbik of Carte Main         Salom/Picking         Light Track         Mini Bus         Bus         Medium - Henry &amp; Full         Henry Fruck Fruiler Track         Bicycle         Predestrian           Mul2 &amp; Western Bypass         50         110         2.612         2.96         6.97         54         137         88         3.944         607         3.04           Randa to Mchinji         57         3         3.144         2.92         918         6.2         118         7.2         3.944         607         3.94           Randa to Mchinji         114         2         2.699         176         5.35         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09<!--</td--><td>Motorycel Motorycel Motorykke SulcomPickup         Motorycel Motorycel Motorykke SulcomPickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Bicycle         Petestrian           MIZ &amp; Western Bypass         c         Trailer         Avgagon         Light Truck         Mini Bus         81         13         88         3.944         607        
304           Read to Mchinji         57         3         3.144         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         57         3         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         407         394           Read to Mchinji         13         16         2.123         13         475         2.644         443         33         447         134</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motorcycle (Motorcycle)         Motorcycle (Mo</td><td>Motoreyed         Motoreyed         Motoreyed         Motoreyed         Light Truck         Mini Bas         Bas         Bas         Meddium         Hensy Fried         Frequent         Bissych         Pedestrian           Motediar         6         7         34         697         54         137         88         3,944         607         344           Road to Lilongwe         50         10         2,612         2,96         697         54         137         88         3,944         607         344           Road to Lilongwe         50         1         2,612         2,69         176         52         38         87         44         607         3,344         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944</td><td>Motor of the control of the</td></td> | Motorcycl<br>e         Motorcycle<br>Trailer         Motorcycle<br>Arabier         Motorcycle<br>Ara | Motorcycl Motor Side Saloon/Pickur Bypass         Trailer Truck Trailer         Mini Bus Mcekday         Bus Medium - Heavy Truck Trailer Truck Heavy Truck Trailer Truck Raunda road to Mchinji By Saloon By Saloon Mchinji By Saloon By Salo | Motorcycl<br>Redding         Motorcycl<br>Frailer         Motorcycl<br>Argan         Motorcycl<br>Argan         Light Truck         Mini Bus         Bus         Medium -<br>Heavy Truck         Heavy Full<br>Truck         Heavy Evall<br>Truck         Heavy Full<br>Truck         Bicycle         Pedestrian           MIZ & Western Bypass         50         10         2,612         2,96         607         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         183         106         4,765         72         409         196           Kaunda road         Weekend         111         1,686         179         669         21         112         72         3,753         379         196           Road to Mchinji         114         2         2,634         176         73         53         47         5,64         33         342           MIR & Miz & | M12 & Western Bypass         Motorcycl         Motorcycl         Motorcycl         Minchike         Light Truck         Min Bus         Bus         Medium-         Heavy Truck         Trailer Truck         Repetation         Minchika         Medium-         Heavy Truck         Trailer Truck         Minchika         Minchika | M12 & Western Bypass         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Minal Bus         Bus         Medium-         Heavy & Full         Bicycle         Pedestrian           M12 & Western Bypass         50         10         2,612         2,92         697         54         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         137         88         3,944         607         304           Road to Lilongwe         57         3         3,144         292         918         62         133         3,94         607         3,753         379         196           Road to Mchinji         11         1,686         179         526         38         87         46         2,664         33         342           Road to Mchinji         11         1,686         179         52         47         1,6         2,64         3,755         379         196           Mila Mula         11         1,687         2,13         475         2,2         47         1,5         2,64         3,44         3,4           Road to Kasungu         53 | Mail & Western Bypass         Motorcyel Motorbik of Carte Main         Salom/Picking         Light Track         Mini Bus         Bus         Medium - Henry & Full         Henry Fruck Fruiler Track         Bicycle         Predestrian           Mul2 & Western Bypass         50         110         2.612         2.96         6.97         54         137         88         3.944         607         3.04           Randa to Mchinji         57         3         3.144         2.92         918         6.2         118         7.2         3.944         607         3.94           Randa to Mchinji         114         2         2.699         176         5.35         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.06         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09         3.94         4.09 </td <td>Motorycel Motorycel Motorykke SulcomPickup         Motorycel Motorycel Motorykke SulcomPickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Bicycle         Petestrian           MIZ &amp; Western Bypass         c         Trailer         Avgagon         Light Truck         Mini Bus         81         13         88         3.944         607         304           Read to Mchinji         57         3         3.144         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         57         3         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         407         394           Read to Mchinji         13         16         2.123         13         475         2.644         443         33         447         134</td> <td>Motorcycle (Motorcycle)         Motorcycle (Mo</td> <td>Motorcycle (Motorcycle)         Motorcycle (Mo</td> <td>Motoreyed         Motoreyed         Motoreyed         Motoreyed         Light Truck         Mini Bas         Bas         Bas         Meddium         Hensy Fried         Frequent         Bissych         Pedestrian           Motediar         6         7         34         697         54         137         88         3,944         607         344           Road to Lilongwe         50         10         2,612         2,96         697         54         137         88         3,944         607         344           Road to Lilongwe         50         1         2,612         2,69         176         52         38         87         44         607         3,344         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944</td> <td>Motor of the control of the</td> | Motorycel Motorycel Motorykke SulcomPickup         Motorycel Motorycel Motorykke SulcomPickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full         Bicycle         Petestrian           MIZ & Western Bypass         c         Trailer         Avgagon         Light Truck         Mini Bus         81         13         88         3.944         607         304           Read to Mchinji         57         3         3.144         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         57         3         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         607         304           Read to Mchinji         13         16         2.634         197         669         21         112         72         3.944         407         394           Read to Mchinji         13         16         2.123         13         475         2.644         443         33         447         134 | Motorcycle (Motorcycle)         Motorcycle (Mo | Motorcycle (Motorcycle)         Motorcycle (Mo |
Motoreyed         Motoreyed         Motoreyed         Motoreyed         Light Truck         Mini Bas         Bas         Bas         Meddium         Hensy Fried         Frequent         Bissych         Pedestrian           Motediar         6         7         34         697         54         137         88         3,944         607         344           Road to Lilongwe         50         10         2,612         2,96         697         54         137         88         3,944         607         344           Road to Lilongwe         50         1         2,612         2,69         176         52         38         87         44         607         3,344         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944         403         3,944 | Motor of the control of the |

Table AT.1 Result of Traffic Count Survey in Lilongwe City (16 Hours) (3/3)

												_							-		LL			_		C	_	_	LU	1100	
Un-motorized Vehicles	Pedestrian		6,444	8,161	6,308	9,412		7	6	æ	1			13,732	8,290	10,006	77	11,048	7,664	9,572			54	0	54		7	3	4		20
Un-motori	Bicycle		110	2,241	1,642	1,156		53	878	822	559			1,862	1,484	569	,	1,003	833	290			942	<b>L99</b>	772		155	137	187		1,613
Total of Motorized			1,729	26,077	14,820	13,346		949	8,023	8,722	5,754			9,459	9,452	3,592		0,000	6,814	2,380			5,046	3,277	2,286		2,100	1,996	1,538		11,992
nicle	Heavy & Full Trailer Truck		13	115	83	47		37	78	99	54			128	129	∞	ò	90	84	4			200	66	4		46	20	19		25
III : Heavy Vehicle	Medium - Heavy Truck		23	239	173	86		21	115	182	128			82	88	14	,	711	123	13			264	167	98		140	143	118		114
I	Bus		7	127	55	79		6	99	46	43			85	119	64	Ş	00	101	50			96	66	54		36	21	20		24
	Mini Bus		145	8,985	4,975	4,238		80	2,787	2,791	1,678			2,237	2,116	219	,	1,628	1,853	157			1,379	946	597		909	673	529		419
II : Light Vehicle	Light Truck		220	625	423	396		116	275	327	270			1,101	1,016	298	Ç	cke	548	147			664	465	219		213	202	179		489
П:	Saloon/Pickup /Wagon		1,272	15,370	8,933	8,055		462	4,562	5,206	3,282		;	5,661	5,823	2,948	100 0	126,5	4,052	2,003			2,376	1,432	1,227		1,031	923	649		10,793
I: Motorcycle	Motorbike Trailer		7	442	49	395		185	1	0	184			1	H	0	•	•	0	0			0	3	3		•	0	0		13
I: Mot	Motorcycl e		41	174	129	79		39	139	105	115			<b>16</b>	160	42	ł	'n l	53	9			29	65	92		29	41	24		116
Road	Mad	M1 & Likuni Road Weekda <u>y</u>	Road to Escom	Road to Old Town	Road to Paul Kagome	8 Road to Likuni	Weekend	Road to Escom	Road to Old Town	Road to Paul Kagome	Road to Likuni	M1 & Malangalanga Road	Weekday	Road to Bridge	Road to Blantyre	9 Road to LL Girls	Weekend	Koad to Bridge	Road to Blantyre	Road to LL Girls	M1 & Bunda Turnoff	Weekday	Road to Lilongwe	Road to Blantyre	10 Road to Bunda	Weekend	Road to Lilongwe	Road to Blantyre	Road to Bunda	Paul Kagame 11 Weekdav	Paul Kagame at Total Filling Sta.

Table AT.2 Result of Traffic Count Survey in Lilongwe City (24 Hours) (1/3)

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                                                                                                                                                             | Road to Kanengo                                                                                                               | Road to Minzi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                               | Motorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium         Heavy Evull           e         Trailer         /Wagon         Light Truck         Mini Bus         Heavy Truck         Trailer Truck | Motorcycl     Motorbike     Saloon/Pickup     Light Truck     Mini Bus     Bus     Medium - Heavy Truck     Heavy Truck     Trailer Truck     Bicycle | Motorcycl     Motorbike     Saloon/Pickup     Light Truck     Mini Bus     Bus     Medium - Heavy & Full Heavy Truck     Heavy Truck     Trailer Truck     Bicycle       29     1     1,236     64     79     18     56     15     1,499     46 | Motorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full         Heavy Truck         Trailer Truck         Bicycle           29         1         1,236         64         79         18         56         15         1,499         46           69         7         2,228         242         762         81         187         198         3,775         285 | Motorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full         Heavy Truck         Trailer Truck         Bicycle           29         1         1,236         64         79         18         56         15         1,499         46           69         7         2,228         242         767         81         187         198         3,775         285           63         7         2,333         259         767         93         227         210         3,959         284 | Motorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full Heavy Truck         Heavy Truck         Trailer Truck         Bicycle           29         1         1,236         64         79         18         56         15         1,499         46           69         7         2,228         242         767         81         187         198         3,775         285           63         7         2,333         259         767         93         227         210         3,959         284 | Motorcycle         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Heavy Truck         Trailer Truck         Heavy Evill         Heavy Full         Pedestr           29         1         1,236         64         79         18         56         15         1,499         46           69         7         2,228         242         767         81         187         198         3,775         285           63         7         2,333         259         767         93         227         210         3,959         284           14         1         1,024         102         60         8         9         26         1,244         49         49 | Motorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full         Heavy & Full         Bicycle         Pedestria           29         1         1,236         64         79         18         56         15         1,499         46           69         7         2,228         242         767         81         187         198         3,775         285         85           63         7         2,333         259         767         93         227         210         3,959         284         8           14         1         1,024         166         536         86         97         150         154         49         46           28         19         2,537         156         536         97         150         154         3,677         300         1 | Node         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full reavy Truck         Heavy & Full reavy Truck         Heavy & Full reavy Truck         Bicycle         Pedestrial reavy Truck           ort Access         1         Trailer         /Wagon         1,236         64         79         18         56         15         1,499         46         79           rport         69         7         2,228         242         767         93         227         210         3,959         284         8           saungu         63         7         2,333         259         767         93         227         210         3,959         284         8           rport         1         1,024         102         60         8         9         26         1,244         49         1           longwe         28         19         2,537         367         3,677         300         1           saungu         40         18         2,54         558         95         153         3,877         300         1 | Notorcycle         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full Reavy Truck         Heavy & Full Reavy Truck         Heavy Evall Reavy Truck         Bicycle         Pedestria           rport Access         1,236         64         79         18         56         15         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46         1,499         46 <t< td=""><td>Notorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full Funck         Heavy Truck Trailer Truck         Heavy Truck Trailer Truck         Pedestria           ort Access         ort Access         1         Trailer Avagon         Light Truck         Mini Bus         Bus         Heavy Truck Trailer Truck         Heavy Truck         Pedestria           rport         29         1         1,236         64         79         18         56         15         3,775         285           longwe         69         7         2,233         259         767         93         227         210         3,959         284         8           rport         14         1         1,024         102         60         8         9         26         1,244         49         1           sungu         28         19         156         536         97         150         154         49         1         2           sungu         40         2,537         254         254         254         258         95         153         3,677         300         1           sungu         8         2         15         2</td><td>  Motorcyc    Motorbike   Saloon/Pickup   Light Truck   Mini Bus   Bus   Medium - Heavy &amp; Full   Bicycle   Pedestria    </td><td>Motorcycl         Motorbike of a point of a p</td><td>August         Motorbike         SaloonPickup         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full         Heavy &amp; Full Ray &amp; Full         Heavy &amp; Full         Bicycle         Pedestrial Prock           ort Access         ort Access         1         1,236         64         79         18         56         15         1,499         46         Pedestrial Prock           rport         59         1         1,236         64         79         18         56         15         1,499         46         8           longwe         69         7         2,228         242         762         81         187         198         3,775         285         8           semgu         69         7         60         8         97         150         154         49         1         1           semgu         40         18         5         15         154         49         3,677         300         1           seungu         40         18         2,64         2,64         2,64         2,64         2,64         3,67         3,67         3,67         3,67           seungu         89         2         15         1,24</td><td>Motorcycl         Motorcycl         Mini Bus         Bus         Heavy Truck         Trailer Truck         Medium         Heavy Truck         Trailer Truck         Motorcycl         Motorcycl</td><td>Notoreyel         Motoreyel Motorbike         SaloonPickup is         Light Truck         Mini Bus         Bus         Medium - Heavy &amp; Full is         Heavy &amp; Full is         Bicycle         Pedestria           ort Access         ort Access         1 Trailer   Main Bus         Mini Bus         Bus         Heavy Truck         Trailer Truck         Pedestria           rport Access         1</td><td>Notify of the substitution of substitution of the substitution of substitution of the substitution of substitution of substitution of the substitution of substitution of substitution</td><td>Notorcycl         Motorcycl         Motorcycl         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium         Heavy &amp; Full         Bicycle         Pedestrial           ort Access         ort Access         1         Trailer         7         1,236         64         79         18         56         15         1,499         46         7           root         63         7         2,238         242         762         81         187         198         3,775         285         18           semigu         63         7         2,333         2,29         767         93         227         210         3,959         284         8           root         1         1,024         102         66         8         9         26         1,144         49         1           root         2         1         1,024         2,53         156         8         95         153         124         49         1           root         2         1         1,024         2,53         254         558         95         153         128         3,677         3,99         284           sungu         1         &lt;</td><td>  Motorcyc    Moto</td><td>  Motorcyc    Motorchike   SaloonPrickup   Light Truck   Mini Bus   Bus   Medium   Heavy &amp; Full   Heavy Truck   Trailer   Truck   Trailer   Truck   Heavy Truck   Trailer   Traile</td><td>  Motorcyc  Moto</td><td>  Motorcyc  Motorbikk   Saloan/Pickap   Light Truck   Mini Bus   Bus   Medium-   Heavy &amp; Full   Bicycle   Pedestrian    </td><td>  Motorcycle   Motorchike   Saltona/Pickup   Light Truck   Mini Bus   Bus   Medium - Heavy &amp; Pull   Bicycle   Pedestrian    </td><td>Natural         Motorcycl         Motorchike         Saloom/Pickup         Light Truck         Mini Bus         Bus         Medium-         Heavy &amp; Pull arty Truck         Ricycle         Pedestrian           ort Access         ort Access         11,236         64         79         18         56         15         11,499         46         14           port         69         7         2,233         242         762         81         187         198         3,775         285         88           rongwe         69         7         2,233         259         767         81         187         198         3,775         285         88           rongwe         28         1         2,233         259         767         81         187         198         3,775         285         88           sungue         28         1         2,53         156         563         95         153         124         49         44           sungue         89         2,54         6,167         606         2,493         165         6,167         769         538         12,56         21,54         254           sungue         59         1         3,</td><td>Notation         Motorcycle         Motorcycle         Saltonal/Pickup         Light Track         Mini Bas         Bus         Medium-         Hency Evall         Hency Evall         Hency Evall         Bicycle         Predestrian           rort Access         7         Trailer         12.36         64         79         18         56         15         14.49         46         14           rounger         69         7         2.238         2.42         76         81         85         15         1449         46         14           rounger         60         7         2.238         2.42         76         81         85         150         3.959         284         89           rounger         6         7         2.238         2.95         76         89         227         150         154         3.67         39         184           rounger         2         19         2.547         5.86         58         95         153         154         3.67         30         184           rounger         2         10         2.547         5.86         5.8         95         153         153         154         153         154         153<!--</td--><td>  Motorcyc    Motorcyc    Motorbike   SaloomPickup   Light Truck   Mini Bas   Bus   Mediam-   Heavy &amp; Full   Bicych   Pedestrian    </td><td>Notation of the control of t</td><td>  Postage   Motoryck   Motorpike   SaloomPickup   Light Truck   Mini Bus   Bus   Meditime - Heavy &amp; Full   Bicycle   Podestrian    </td><td>  Motoryc  Motorbike   SaloomPickup   Light Truck   Mini Bus   Bus   Medium-   Heavy Truck   T</td></td></t<> | Notorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full Funck         Heavy Truck Trailer Truck         Heavy Truck Trailer Truck         Pedestria           ort Access         ort Access         1         Trailer Avagon         Light Truck         Mini Bus         Bus         Heavy Truck Trailer Truck         Heavy Truck         Pedestria           rport         29         1         1,236         64         79         18         56         15         3,775         285           longwe         69         7         2,233         259         767         93         227         210         3,959         284         8           rport         14         1         1,024         102         60         8         9         26         1,244         49         1           sungu         28         19         156         536         97         150         154         49         1         2           sungu         40         2,537         254         254         254         258         95         153         3,677         300         1           sungu         8         2         15         2 | Motorcyc    Motorbike   Saloon/Pickup   Light Truck   Mini Bus   Bus   Medium - Heavy & Full   Bicycle   Pedestria | Motorcycl         Motorbike of a point of a p | August         Motorbike         SaloonPickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full         Heavy & Full Ray & Full         Heavy & Full         Bicycle         Pedestrial Prock           ort Access         ort Access         1         1,236         64         79         18         56         15         1,499         46         Pedestrial Prock           rport         59         1         1,236         64         79         18         56         15         1,499         46         8           longwe         69         7         2,228         242         762         81         187         198         3,775         285         8           semgu         69         7         60         8         97         150         154         49         1         1           semgu         40         18         5         15         154         49         3,677         300         1           seungu         40         18         2,64         2,64         2,64         2,64         2,64         3,67         3,67         3,67         3,67           seungu         89         2         15         1,24 | Motorcycl         Mini Bus         Bus         Heavy Truck         Trailer Truck         Medium         Heavy Truck         Trailer Truck         Motorcycl         Motorcycl | Notoreyel         Motoreyel Motorbike         SaloonPickup is         Light Truck         Mini Bus         Bus         Medium - Heavy & Full is         Heavy & Full is         Bicycle         Pedestria           ort Access         ort Access         1 Trailer   Main Bus         Mini Bus         Bus         Heavy Truck         Trailer Truck         Pedestria           rport Access         1 | Notify of the substitution of substitution of the substitution of substitution of the substitution of substitution of substitution of the substitution of substitution of substitution | Notorcycl         Motorcycl         Motorcycl         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium         Heavy & Full         Bicycle         Pedestrial           ort Access         ort Access         1         Trailer         7         1,236         64         79         18         56         15         1,499         46         7           root         63         7         2,238         242         762         81         187         198         3,775         285         18           semigu         63         7         2,333         2,29         767         93         227         210         3,959         284         8           root         1         1,024         102         66         8         9         26         1,144         49         1           root         2         1         1,024         2,53         156         8         95         153         124         49         1           root         2         1         1,024         2,53         254         558         95         153         128         3,677         3,99         284           sungu         1         < | Motorcyc    Moto | Motorcyc    Motorchike   SaloonPrickup   Light Truck   Mini Bus   Bus   Medium   Heavy & Full   Heavy Truck   Trailer   Truck   Trailer   Truck   Heavy Truck   Trailer   Traile | Motorcyc  Moto | Motorcyc  Motorbikk   Saloan/Pickap   Light Truck   Mini Bus   Bus   Medium-   Heavy & Full   Bicycle   Pedestrian | Motorcycle   Motorchike   Saltona/Pickup   Light Truck   Mini Bus   Bus   Medium - Heavy & Pull   Bicycle   Pedestrian | Natural         Motorcycl         Motorchike         Saloom/Pickup         Light Truck         Mini Bus         Bus         Medium-         Heavy & Pull arty Truck         Ricycle         Pedestrian           ort Access         ort Access         11,236         64         79         18         56         15         11,499         46         14           port         69         7         2,233         242         762         81         187         198         3,775         285         88           rongwe         69         7         2,233         259         767         81         187         198         3,775         285         88           rongwe         28         1         2,233         259         767         81         187         198         3,775         285         88           sungue         28         1         2,53         156         563         95         153         124         49         44           sungue         89         2,54         6,167         606         2,493         165         6,167         769         538         12,56         21,54         254           sungue         59         1         3, | Notation         Motorcycle         Motorcycle         Saltonal/Pickup         Light Track         Mini Bas         Bus         Medium-         Hency Evall         Hency Evall         Hency Evall         Bicycle         Predestrian           rort Access         7         Trailer         12.36         64         79         18         56         15         14.49         46         14           rounger         69         7         2.238         2.42         76         81         85         15         1449         46         14           rounger         60         7         2.238         2.42         76         81         85         150         3.959         284         89           rounger         6         7         2.238         2.95         76         89         227         150         154         3.67         39         184           rounger         2         19         2.547         5.86         58         95         153         154         3.67         30         184           rounger         2         10         2.547         5.86         5.8         95         153         153         154         153         154         153 </td <td>  Motorcyc    Motorcyc    Motorbike   SaloomPickup   Light Truck   Mini Bas   Bus   Mediam-   Heavy &amp; Full   Bicych   Pedestrian    </td> <td>Notation of the control of t</td> <td>  Postage   Motoryck   Motorpike   SaloomPickup   Light Truck   Mini Bus   Bus   Meditime - Heavy &amp; Full   Bicycle   Podestrian    </td> <td>  Motoryc  Motorbike   SaloomPickup   Light Truck   Mini Bus   Bus   Medium-   Heavy Truck   T</td> | Motorcyc    Motorcyc    Motorbike   SaloomPickup   Light Truck   Mini Bas   Bus   Mediam-   Heavy & Full   Bicych   Pedestrian | Notation of the control of t | Postage   Motoryck   Motorpike   SaloomPickup   Light Truck   Mini Bus   Bus   Meditime - Heavy & Full   Bicycle   Podestrian | Motoryc  Motorbike   SaloomPickup   Light Truck   Mini Bus   Bus   Medium-   Heavy Truck   T |

Note: The traffic volumes of 16 hour survey points are magnified to 24hours based on those of 24hour survey points.

Table AT.2 Result of Traffic Count Survey in Lilongwe City (24 Hours) (2/3)

High Politic   High		I	àb	<u> 1e</u>	A	1.	<u> </u>	Ke	Su	11	OI	. I.	ra.	Ш	·C	C	)u	111	SI.	11.	ve,	<u>y</u> 1		LI.	10	ug	, w		باد	y	(4	+ 1	Ho
Harry Vehicle	zed Vehicles	Pedestrian		700	304	409	196		342	389	289			1,684	269	957	1,344		1,031	290	851	518			919	1,556	532	746		2,565	280	1,493	826
Harry Vehicle   Harry Vehicle   Harry Vehicle   Harry Vehicle   Harry Vehicle   Motority   Motori	Un-motori	Bicycle		t	200	752	379										447											671		797	319	662	240
Harmonic   Harmonic	Total of Motorized			,	4,220	5,099	4,016		3,064	4,536	3,367			9,465	8,947	6,191	5,398		10,716	9,943	3,656	3,428			10,508	11,421	13,095	11,603		8,551	7,253	6,541	4,011
Figure 1	iicle	Heavy & Full Trailer Truck		į	£	114	77		53	63	17			105	116	108	78		06	92	09	37			193	191	299	294		65	73	44	44
F. Motorcycle   H. Light Vehicle   Motorcycle   Motorbike Saloon/Pickup   Light Truck   Mini Bus   Bus	II : Heavy Vel	Medium - Heavy Truck		,	140	196	120		100	108	54			204	231	192	148		186	179	69	115			360	400	584	453		231	170	140	73
I: Motorcycle   Motorbike   Saloon/Pickup   Light Vehicle	I	Bus		ţ	27	29	22		44	61	29			99	99	37	29		58	99	104	86			160	167	260	186		145	113	82	24
I: Motorcycle   Motorcycle   Anotorcycle		Mini Bus		ì	/40	982	716		909	843	546			1,709	1,475	1,068	681		2,302	2,123	894	489			957	1,297	994	1,301		397	846	277	929
I: Motorcycle   Motorcycle   Anotorcycle	Light Vehicle			ţ	317	312	210		206	202	155			226	235	199	174		250	217	74	120			391	536	488	493		310	212	210	84
I: Motorcycl   61   64   64   64   64   64   64   64	П:	Saloon/Pickup /Wagon		700.0	2,794	3,364	2,818		1,939	3,104	2,441			7,087	6,752	4,527	4,227		7,806	7,262	2,441	2,571			8,216	8,581	10,153	8,563		7,346	5,787	5,731	3,066
Moto Moto e	torcycle			7	П	4	7		13	23	17			4	4	3	3		0	0	0	0			16	10	19	29		3	4	1	2
Road  M12 & Western Bypass  Weekday  Road to Lilongwe Road to Mchinji Kaunda road M1 & M12 Weekday Road to Mchinji Kaunda road M1 & M12 Weekday Road to Paul Kagome Road to Mchinji Weekend Road to Mchinji Weekend Road to Mchinji Weekend Road to Old town Road to Old town Road to Old town Road to Cliy Center Road to Old Town Mzimba Road & Kenyatta Road Weekday Road to Old Town Mzimba Road & Kenyatta Road Weekday Road to Old Town Mzimba Road	I: Mo	Motorcycl e		ì	<b>4</b>	61	44		105	131	107			74	78	57	59		22	29	15	10			215	238	298	284		53	47	55	41
y 9 7	Dood	KOZU	M12 & Western Bypass	Weekday	Road to Lilongwe	Road to Mchinji		Weekend	Road to Lilongwe	Road to Mchinji	Kaunda road	M1 & M12	Weekday	Road to Old town	Road to Kasungu	Road to Paul Kagome		Weekend	Road to Old town	Road to Kasungu	Road to Paul Kagome	Road to Mchinji	Mzimba Road & Kenyatta Road	Weekday	Road to Old Town	Mzimba Road	Road to City Center	7 Road to Paul Kagome	Weekend	Road to Old Town	Mzimba Road	Road to City Center	Road to Paul Kagome

Note: The traffic volumes of 16 hour survey points are magnified to 24hours based on those of 24hour survey points.

Table AT.2 Result of Traffic Count Survey in Lilongwe City (24 Hours) (3/3)

	Lavi	C F	71	•4	V	esi	uII	U	1.	IT	all	IC		ou	ш	B	uI	V	<u>:у</u>	Ш	L	щ	)11	gn	/e	C.	ιy	(4	44	пυ	uı
Pedestrian		6,444	8,161	6,308	9,412	_	7	6	3	1			13,732	8,290	10,006	_	11,648	7,664	9,572			54	0	54		2	8	4		6	07
Bicycle		110	2,242	1,642	1,157		53	878	822	559			1,862	1,484	269		1,003	833	290			943	029	775		157	140	190			1,013
		2,495	27,010	15,545	14,280		1,622	8,821	9,590	6,615			10,121	10,114	3,844		7,666	7,836	2,737			5,399	3,422	2,358		2,466	2,155	1,628		13 631	12,831
Heavy & Full Trailer Truck		30	133	68	28		51	92	77	99			137	138	6		66	26	3			218	106	46		28	23	19		76	07
Medium - Heavy Truck		52	266	192	113		50	138	198	138			88	95	15		129	141	15			321	189	88		194	165	123		,	771
Bus		27	141	63	88		28	85	50	47			91	128	69		72	116	58			118	104	26		59	29	23		76	07
Mini Bus		182	9,029	5,001	4,289		137	2,852	2,822	1,721			2,394	2,264	234		2,102	2,131	181			1,397	955	599		630	691	533		440	44
Light Truck		260	899	453	409		156	329	364	319			1,178	1,087	319		682	630	169			869	481	226		257	225	188		223	272
Saloon/Pickup /Wagon		1,892	16,153	9,560	8,845		975	5,120	5,908	4,025			6,058	6,231	3,154		4,516	4,660	2,303			2,580	1,517	1,282		1,239	1,002	712		11 540	11,548
Motorbike S Trailer		∞	446	53	396		185	99	65	184			=	H	0		0	0	0			0	w	w		0	9	9		7	14
Motorcycl e		4	174	133	80		40	139	106	115			175	171	45		99	61	7			29	9	95		29	14	24		7	124
Koad	M1 & Likuni Road Weekdav	Road to Escom	Road to Old Town	Road to Paul Kagome	8 Road to Likuni	Weekend	Road to Escom	Road to Old Town	Road to Paul Kagome	Road to Likuni	M1 & Malangalanga Road	Weekday	Road to Bridge	Road to Blantyre	9 Road to LL Girls	Weekend	Road to Bridge	Road to Blantyre	Road to LL Girls	M1 & Bunda Turnoff	Weekday	Road to Lilongwe	Road to Blantyre	10 Road to Bunda	Weekend	Road to Lilongwe	Road to Blantyre	Road to Bunda	Paul Kagame	1 Weekday	Faul Kagame at 10tal filling Sta.
	Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy Truck         Heavy Truck Trailer Truck         Pedestrian	Motorcycl       Motorbike       Saloon/Pickup       Light Truck       Mini Bus       Bus       Medium - Heavy & Full Heav Truck       Heavy Truck Trailer Truck       Pedestrian	Motorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full Heavy Truck         Heavy Truck Trailer Truck         Pedestrian           44         8         1,892         260         182         27         52         30         2,495         110         6,444	Motorcycl         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full Reavy Truck         Heavy Truck         Trailer Truck         Bicycle         Pede           44         446         1,892         260         182         27         52         30         2,495         110         2,242           174         446         16,153         668         9,029         141         266         133         27,010         2,242	Motorcycl e         Motorbike Trailer         Saloon/Pickup /Wagon         Light Truck         Mini Bus         Bus         Medium - Heavy Truck         Heavy & Full Trailer Truck         Heavy Truck         Trailer Truck         Pedestrian           44         8         1,892         260         182         27         52         30         2,495         110         6,444           174         446         16,153         668         9,029         141         266         133         27,010         2,242         8,161           me         133         5,30         453         5,001         63         9,560         453         5,001         63,08	Motorecycle of Trailer         Motorbike of Trailer         Saloon/Pickup of Trailer         Light Truck         Mini Bus         Bus         Medium - Heavy & Full of Heavy Truck Trailer Truck         Heavy Truck Trailer Truck         Heavy Truck Trailer Truck         Pedestrian           MI & Likuni Road         44         1,892         260         182         27         27         2495         110         6,444           Road to Escom         174         446         16,153         668         9,029         141         266         133         27,010         2,2495         110         6,444           Road to Did Town         173         53         9,560         453         5,001         63         9,129         18,245         1,642         6,308           Road to Paul Kagome         133         396         8,845         409         4,289         89         113         58         1,157         9,412	Motorecycle of Trailer         Motorbike of Trailer         Saloon/Pickup of Trailer         Light Truck         Mini Bus         Bus         Medium - Heavy & Full of Heavy & Full of Saloun	Motoreycle of Trailer         Motorbike of Trailer         Saloon/Pickup of Trailer         Light Truck         Mini Bus         Bus         Medium - Heavy & Full of Heavy & Full of Saloun	Motoreyed E         Motorbike Trailer         Saloon/Pickup Ikagome         Light Truck         Mini Bus         Bus         Medium - Heavy & Full E         Heavy & Full E         Heavy Truck Trailer Truck         Heavy Truck Trailer Truck         Mini Bus         Bus         Medium - Heavy & Full E         Heavy Truck Trailer Truck         Medium - Heavy & Full E         Heavy Truck Trailer Truck         Medium - Heavy & Full E         Heavy Truck Trailer Truck         Pedestrian           Weekday         Weekday         80         16,153         668         9,029         141         266         133         27,010         2,249         110         6,444           Road to Did Town         174         446         16,153         668         9,029         141         266         133         27,010         2,249         8,161           Road to Did Town         80         8,845         409         4,289         89         113         58         114,280         1,157         9,412           Road to Likumi         40         185         975         126         2,852         86         1,622         53         1,622         53         9,412         9,412           Road to Escom         40         5,120         329         2,852         85         138	Motorcycle of Trailer         Motorbike of Trailer         Saloon/Pickup of Trailer         Light Truck of Trailer         Mini Bus         Bus         Medium of Heavy & Full of Trailer Truck of Trailer Trailer of Trailer Trailer of Trailer Truck of Trailer Truck of Trailer Truck of Trailer Trailer Of Trailer Trailer of Trailer of Trailer Truck of Trailer Truck of Trailer Truck of Trailer Truck of Trailer Trailer Trailer Of Trailer Trailer Trailer Of Trailer Trailer Of Trailer Trailer Of Trailer Trailer Trailer Trailer Of Trailer Trailer Trailer Trailer Of Trailer Trailer Of Trailer Of Trailer Trailer Trailer Trailer Of Trailer Trailer Of Trailer Of Trailer Of Trailer Of Trailer Of Trailer Of Trailer Trailer Of Trailer Of Trailer Of Trailer Of Trailer Of Trailer Of Tra	Road of Deckey of Excision         Motorcycle of Excision         Motorcycle of Excision         Motorcycle of Excision         Motorcycle of Excision         Mini Bus of Existing Truck         Mini Bus of Existing Truck         Mini Bus of Existing Truck         Mini Bus of Existing Truck of Excision         Mini Bus of Existing Truck of	Road to Exemates and to Exemates and to Exemate Road to Distribution of Exemates and to Exemite and the Exemption and Exemption and Exemption and the Exemption and Exemption and Exemption and Exemption and Ex	Motorcycl e         Motorcycl Trailer         Motorbike         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy Truck         Heavy & Full railer Truck         Heavy & Full railer Truck         Bicycle         Pedestrian           Weekday         Weekday         44         1,892         26         182         27         52         30         2,495         110         6,444           Road to Did Town         174         446         16,153         668         9,029         141         266         133         27,010         2,242         8,164           Road to Did Town         133         53         9,560         453         5,001         63         192         89         115,545         1,642         6,308           Road to Did Town         40         185         9,560         45,289         89         113         58         11,57         9,412           Weekend         133         5,120         8,845         409         4,289         89         11,57         9,290         11,57         9,282         83         11,57         9,412           Road to Likuni         115         66         5,120         2,822         58         13         77	Motorcycle (Light Truck)         Motorcycle (Light Truck)         Motorcycle (Light Truck)         Motorcycle (Light Truck)         Mini Bus         Bus         Medium (Medium (Medium (Light Truck))         Medium (Medium (Medium (Light Truck))         Medium (Medium (Me	Motorcycle action         Motorbike action         Saloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full         Heavy & Full         Heavy & Full         Predestrian           MI & Likuni Road         4         Trailer         Avagon         1892         260         182         27         52         30         2,495         110         6,444           Road to Escom         174         446         16,153         668         9,029         141         266         133         2,495         110         6,444           Road to Did Town         173         53         9,560         443         5,001         63         192         89         15,545         1,612         8,161           Road to Daul Kagome         133         8,845         403         4,289         89         113         88         1,627         8,161           Road to Likuni         139         66         5,120         4,289         85         13         1,627         8,212         8,24           Road to Escom         116         65         5,908         3,64         2,822         85         1,88         1,157         9,590           Road to Likuni         115         1	Motorcycle of Freshold England Road of England Road to Escome at the Engl	Motorcycle (National Light Front (National Light Front (National Light Road to Escimal	Motorcycle         Motorbike         Salloon/Pickup         Light Truck         Mini Bus         Bus         Medium - Heavy & Full Heavy Truck         Heavy & Full Heavy Truck         Heavy Truck         Fught Truck         Pedestrian           MI & Likuni Road         Weekday         44         1,892         260         182         27         26         133         2,495         110         6,444           Road to Escom         174         446         1,6153         668         9,029         141         266         133         2,495         110         6,444           Road to Did Town         133         5,30         458         409         4,289         89         113         88         1,452         6,444           Weekend         133         9,50         4,289         89         113         88         1,458         1,157         9,418           Road to Likuni         139         66         5,120         3,282         88         1,438         1,157         9,418           Road to Paul Kagome         106         65         5,908         3,64         2,822         86         1,83         1,62         83         1,438         1,438         1,438         1,438         1,438         1	Motorcycle         Motorcycle         Anotorcycle         Motorcycle         Mini Bus         Bus         Medium         Heavy Truck         Trailer         Trailer         Motorcycle         Motorcycle	Motorcyc    Moto	Motorcycle (Motorcycle)         Motorcycle (Mo	Motorcycl between the component of	Motorcycl   Moto	Mil & Likuni Road         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Motorcycl         Mini Bus         Bus         Medium         Heavy Truck         Trailer         Figer         Pedestrian           Mil & Likuni Road         All & Likuni Road         All & S. 180         2.66         1.82         2.7         3.0         2.495         110         6.444           Road to Dail Town         174         446         16.133         6.68         9.029         141         2.66         133         2.495         110         6.444           Road to Dail Town         174         446         16.133         6.68         9.029         141         2.66         133         2.495         11.67         8.444           Road to Paul Kagome         139         6.68         5.120         4.289         8         8         1.157         9.412         8.444           Road to Paul Kagome         116         6.6         5.120         3.249         3.6         2.822         8         1.189         8.7         9.4         9.4         9.4         9.4         9.4         9.4         9.4         9.4         9.4         9.4         9.4         9.4         9.4         9.4         9.4	Motorycel of the control of	Note of the state of	Motorcycl be         Motorcycl C         Motorcycl Trailer         SalomPickup Awgean         Light Truck         Mini Bus         Bus         Mediam         Heavy Truck Trailer         Heavy Truck Trailer         Road to Bank Truck         Motorcycl Trailer         Peredian         Bicycl         Peredian           M1 & Likuni Road         4         4         4         1,892         260         182         27         30         2,495         110         6,444           Road to Old Town         133         36         453         5,001         453         5,001         8         1,41         9         113         5,249         1,642         6,308           Road to Old Town         133         9,6         453         4,60         4,239         8         8         1,642         6,308         1,642         6,308         1,642         6,308         1,642         6,308         1,642         6,308         1,642         6,308         1,642         6,308         1,642         6,308         1,642         6,308         1,642         6,308         1,642         8,308         1,642         6,308         1,642         8,308         1,642         8,308         1,642         8,308         1,642         8,308         1,642	Motorcycle         Motorcycle         Salom/Peckup         Light Truck         Mini Bus         Bus         Medium         Heavy Truck         Trailer         Avgagan         Light Truck         Mini Bus         Bus         Medium         Heavy Truck         Trailer         Avgagan         Light Truck         Mini Bus         Bus         Medium         Heavy Truck         Trailer         Avgagan         Light Truck         Mini Bus         Bus         Medium         Medi	Mile   Monreyed   Mo	Mile Likuni Raad   Motorrbik Shoon/Pickup   Light Track   Mini Bus   Bus   Medium-   Heavy & Full   Bicycle   Pedestrian   Medium-   Heavy & Full   Bicycle   Bicycle   Pedestrian   Heavy & Full   Bicycle   Bi	Mile   Motorcyc    Motorchike   Saloow/Pickum    Light Track   Mini Bus   Bus   Heavy Track Trailer Track   Mini Bus   Bus   Heavy Track Trailer Track   Mini Bus   Mini Bus   Heavy Track Trailer Track   Mini Bus   Heavy Track Track Trailer Track   Mini Bus   Heavy Track Trailer Track   Mini Bus   Heavy Track Trailer Track   Mini Bus   Heavy Track Track Track   Mini Bus   Heavy Track Track Trailer Track   Heavy Track Track Track   Mini Bus   Heavy Track Track Track Track   Mini Bus   Heavy Track Track   Mini Bus   Heavy Track Track   Mini Bus   Heavy Track Track Track   Mini Bus   Heavy Track Track   Mini Bus   Heavy Track Track Track   Mini Bus   Heavy Track

Note: The traffic volumes of 16 hour survey points are magnified to 24hours based on those of 24hour survey points.

## 2. Result of Vehicle Origin & Destination (OD) Survey

Vehicle OD survey was conducted with 5 locations on 3 continues weekdays and one weekend during 29<sup>th</sup> July to 2<sup>nd</sup> August in 2009 by JICA Study Team. The total number of samples was 1,585 during the survey period.

Table AT.3 Result of Vehicle Origin & Destination (OD) Survey in Lilongwe City (24 Hours)

	Old Twon Chimutu	Chimutu	City Center	Nyama	Ngwenya	Kanengo	Mvunguti Tsabango	Tsabango	Chinsapo	Mariya	Alimaunde Lumbadzi	Lumbadzi	Via Salima Via North road M1	Via North M1	Via M12	Via Bund turn off	Total	sult
Old Town	8,664	5,111	911	873	573	157	1,900	0	207	562	190	819	9,864	1,355	2,858	7,182	41,226	01
Chimutu	5,373	0	156	0	207	0	52	0	0	0	0	0	208	0	118	104	6,219	veni
City Center	626	69	0	0	104	0	0	0	0	0	29	102	291	0	0	0	1,564	cie
Nyama	1,145	104	0	0	0	52	52	0	0	0	0	0	52	0	0	0	1,406	Ori
Ngwenya	1,467	0	0	104	104	0	311	0	0	104	0	52	156	0	0	0	2,298	gın
Kanengo	157	0	0	0	0	52	105	0	0	0	0	0	0	0	0	0	314	άL
Mvunguti	2,459	209	0	797	105	52	52	0	0	0	0	0	52	0	0	65	3,251	est
Tsabango	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ınat
Chinsapo	475	69	0	0	0	0	0	0	0	0	0	0	104	0	59	0	269	ion
Mariya	469	0	0	8118	104	0	52	0	0	0	0	52	0	0	0	0	196	(UI
Alimaunde	234	0	0	0	0	0	0	0	0	0	0	0	0	15	0	146	394	J) S
Lumbadzi	234	0	0	0	0	0	0	0	0	0	0	0	0	15	0	146	394	urv
Via Salima road	6,574	425	52	105	528	0	157	0	52	0	44	29	438	22	65	209	9,094	ey 1
Via North M1	3,264	52	0	0	0	0	0	0	0	0	29	0	252	0	0	808	4,406	n L
Via M12	3,569	0	295	8118	59	0	0	0	0	0	0	0	0	0	0	577	4,619	uon
/ia Bund turn off	4,190	156	0	104	0	0	156	0	0	0	0	52	637	304	415	37	6,051	gwe
Total	39,253	6,176	1,415	1,683	1,783	314	2,838	0	260	999	293	1,107	12,054	1,710	3,509	9,666	82,728	CI
																		ŗ

Source; Result of roadside interview survey by JICA Study team in August, 2009

#### 2. Result of Minibus Passenger Survey

Minibus passenger survey was conducted with 11 routes on 3 continues weekdays and one weekend during 29<sup>th</sup> July to 3rd August in 2009 by JICA Study Team.

**Table AT.4 Result of Minibus Passenger Count Survey** 

Minibus		No. of Pa	ssenger on	Weekday	No. of Pa	ssenger on '	Weekday
Route	Destination	From Old	To Old	Total	From Old	To Old	Total
Route		Town	Town	Total	Town	Town	Total
1	Area 23	25,953	17,368	43,321	33,695	27,392	61,087
2	Area 25	18,142	18,751	36,893	15,955	12,234	28,189
3	Area 49	10,766	22,537	33,303	9,622	5,600	15,222
4	Area 36	6,945	7,159	14,104	6,962	7,176	14,138
5	Area 24	6,812	6,706	13,518	4,623	4,299	8,922
6	Kauma/Area 12	3,077	4,590	7,666	2,634	2,366	5,000
7	Likuni	11,199	15,919	27,118	11,345	15,567	26,912
8	Mitundu	4,534	6,808	11,342	975	1,077	2,052
9	Area 18B	15,584	15,575	31,159	18,390	18,379	36,769
10	Limbadzi	2,154	3,082	5,236	1,876	2,740	4,616
11	Mpingu	2,474	2,274	4,748	196	588	784
Total	-	107,640	120,769	228,409	106,273	97,418	203,692

#### 3. Road Inventory Survey

Road inventory survey was carried out for main and secondary roads in August, 2009 by JICA Study Team.

#### (1) Form for Road Inventory

JICA uses the road inventory form by Roads Authority.

## (2) Coding System for Road Inventory Survey by JICA

#### Road Classification (proposed)

- 1. Major road
- 2. Secondary road
- 3. Urban road
- 4. Community road

Data base for urban roads and community roads were already obtained from Roads Authority. However the road data base by Roads Authority has no enough data for main and secondary roads. For that reason, JICA Study Team conducted additional road inventory survey for major roads, secondary roads and some urban roads.

The additional survey and further coordination with Roads Authority is needed for making usable road data base for Lilongwe City.

## Coding System Proposed by JICA Study Team

Link No.: Name of National roads such as M001, M012, M014 etc. for major roads, S260, S263 for secondary roads

U001, U002 for urban roads

Sub Link No.: Same as those of Road Authority, starting 1 for each link and continuing 2, 3 etc.

Table AT.4 Summary Table of Road Condition Survey (part of table, as a sample)

												Road Beserve (m)	erve (m)	Roadsic	Roadside Drain
Link_No	Sublink No	Sublink Length (m)	Width (m)	Shoulder Width (m)	Surface_ Type	Base_Type	Shoulder_Type	Lanes	Central_ Divider	Gradient	Curvature	Left	Right	Left_Drain	Right_Drain
M001	1	133	6.7	1.5	Asphalt	Crushed Rock	Unsealed	2		Flat	Straight	16.2	10.0	TRUE	TRUE
Bunda junction	2	1467	6.7	1.5	Asphalt	Crushed Rock	Unsealed	2		Flat	Straight	25.5	14.5	TRUE	TRUE
M001	3	2300	6.7	1.5	Asphalt		Unsealed	2		Flat	Straight	14.0	21.0	TRUE	TRUE
M001	4	2250	6.7	1.5	Asphalt		Unsealed	2		Flat	Straight	12.0	23.0	TRUE	TRUE
M001	5	450	6.7	1.5			Unsealed & sealed	2		Flat	Straight	24.7	25.0	TRUE	TRUE
M001	9	1550	6.7	1.5	Asphalt		Unsealed & sealed	2				25.0	18.6	TRUE	TRUE
M001	7	200	6.7	1.5	Asphalt		Unsealed	2		Flat	Bendy	9.4	7.6	TRUE	TRUE
001	8	059		1.5	Asphalt		Unsealed & sealed	2		Flat	Straight	25.0	25.0	TRUE	TRUE
M001	6		6.7	1.5	Asphalt		Sealed	2		Flat	Straight	7.0	10.4	TRUE	TRUE
M001	10	1150	6.7	1.5	Asphalt		Sealed	7				5.0	0.6	TRUE	TRUE
M001	11	2400	6.7	1.5	Asphalt		Sealed	2		Flat	Straight	10.5	3.5	TRUE	TRUE
001	12	3600	6.7	1.5	As		Sealed	7				17.0	25.0	TRUE	TRUE
M001	13		6.7	1.5	IJ		Sealed	2				10.7	22.0	TRUE	TRUE
M001	14	11350	6.7	1.5	Ch		Sealed	2				25.0	25.0	TRUE	TRUE
M001	15	5250	6.7	1.5	Ċ		Sealed	2				8.5	18.0	TRUE	TRUE
M012	1	2000	6.7	1.5	Ch		Sealed	7				25.0	19.8	TRUE	TRUE
M012	2	1400	6.7	1.5	Chip Seal		Sealed	7				17.3	18.2	TRUE	TRUE
M012	3	1500	6.7	1.5	$\mathbf{C}\mathbf{I}$		Sealed	2				14.2	12.7	TRUE	TRUE
M012	4	2600	6.7	1.5	1.5 Chip Seal		Sealed	2				7.5	12.0	TRUE	TRUE
M014	1	1300	6.7	1.5	C		Sealed	2				12.6	10.0	TRUE	TRUE
M014	2	2400	6.7	1.5	IJ		Sealed	2				15.3	25.0	TRUE	TRUE
M014	3	1600	6.7	1.5	ŋ		Sealed	7				13.4	15.6	TRUE	TRUE
M014	4	1200	6.7	1.5	1.5 Chip Seal		Sealed	2				7.6	25.0	TRUE	TRUE
25	1	1400	6.7	1.0	1.0 Slurry Seal		Unsealed	7				10.7	0.6	TRUE	TRUE
.25	2	2700	6.7	1.0	1.0 Slurry Seal		Unsealed	7				11.0	10.0	TRUE	TRUE
097S	1	3200	6.7	1.5	1.5 Slurry Seal		Sealed	7				25.0	25.0	TRUE	TRUE
S260	2	3000	6.7	1.5	.5 Slurry Seal		Sealed	2				25.0	25.0	TRUE	TRUE
S260	3	2200	6.7	1.5	Slurry Seal		Sealed	2				25.0	16.0	TRUE	TRUE
S260	4	2700	6.7	1.5	Slurry Seal		Sealed	2				14.7	25.0	TRUE	TRUE
S260	5	1900	6.7	1.5	Slurry Seal		Sealed	2				25.0	25.0	TRUE	TRUE
S261	1	1500	6.7	1.5	1.5 Slurry Seal		Sealed	2				11.0	10.0	TRUE	TRUE
S261	2	2200	6.7	1.5	1.5 Slurry Seal		Sealed	2		Flat		0.9	10.0	TRUE	TRUE
S261	3	2300	6.7	1.5	.5 Slurry Seal		Sealed	2		Flat		25.0	7.0	TRUE	TRUE
S261	4	006	6.7	1.5	1.5 Slurry Seal		Sealed	2		Flat	Bendy	5.0	5.0	TRUE	TRUE
S261	5	1350	6.7	1.5	.5 Slurry Seal		Sealed	2		Flat	Straight	2.5	6.7	TRUE	TRUE
S261	9	850	6.7	1.5	Slurry Seal		Sealed	2		Flat	Bendy	3.0	3.0	TRUE	TRUE

# **APPENDIX 4**

**Project Sheet** 

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59.9

## Urban Development Programs

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		Impleme	Implementation Schedule	chedule	Resp. Organization	anization	Dev. Cost	Cost
Sub-Program	Project	-2015	-2020	-2030	Implem- entation	Ope./ mainte.	MKW	US\$ million
1-1. Institutionalization of	1-1 (1) Legalization of 2030 land use plan				LCC/ MoLHUD	-	0.004	0.03
Program	1-1 (2) Review of master plan		review	review	CCC	1	0.029	0.20
	1-2 (1) Urban Plan and Development Management				MoLGRD/ LCC	1	0.401	2.80
1-2. Capacity Development Sub-	1-2. Capacity Development Sub- 1-2 (2) Improvement of land registration management				LCC/ MoLHUD	1	0.009	0.06
Management	1-2 (3) Enhancement of LCC administration (New public administration, streamlining of LCC staff and HRD)				CCC	1	0.009	0.06
	1-2 (4) Institutional strengthening for priority project implementation				CCC	1	0.014	0.10
						Total	0.47	3.3

		Implementation Schedule	ntation S	hedule	Resp. Organization	anization	Dev. Cost	ost
Sub-Program	Project	-2015	-2020	-2030	Implem- entation	Ope./ mainte.	MKW	US\$ million
	2-1 (1) Strengthening of land registration system: property records, land survey, etc				гсс	1	0.014	0.10
	2-1 (2) Fund creation for community social infrastructure development				TCC	NGO	0.007	0.05
2-1. Living Environment Improvement Sub-Program in THA/Implanned Settlement	2-1 (3) Improvement of social service by strengthening of CBO				TCC	CBO	0.007	0.05
	2-1 (4) Transportation development/improvement; Community road improvement in THA/unplanned settlement			N	MoLHUD/	MoLHUD/ LCC	3.468	24.20
	$2-1 \ (5) \ Urban \ utility \ development, \ rehabilitation, expansion; \ water kiosk \ development, \ provision \ of safe latrine, composting \ \& \ cleaning \ education \ in \ THA/unplanned settlement$			I	MoIWD/ LWB/LCC	NGO	6.492	45.30
	Urban transportation development/improvement							
	2-2 (1) Urban road development & maintenance and inventory database				LCC/RA	LCC/RA	12.210	85.20
	2-2 (2) Public transportation improvement (Expansion of Minibus Depot in Old Town, Review of Minibus Operation and Routes)				TCC	LCC/MOAM	0.115	08.0
2-2. Urban Transportation and Urban Utility Services Upgrading	2-2 (3) Traffic control management establishment (Development of Safety Traffic Master Plan, Development of Safe Pedestrian Network, Development of Cycle Road Network)				LCC/ NRSCM	гсс	2.293	16.00
Sub-Program in Planned	Urban utility development, rehabilitation, expansion							
	2-2 (4) Water supply system development/improvement (Service extension and development, NRW reduction program)			I	LWB/CBO LWB/CBO	LWB/CBO	4.342	30.30
	2-2 (5) Sanitation system improvement (Preparation of sewerage and sanitation master plan, Sanitation promotion campaign, Study on on-site sanitation (OSS) management)			I	MoIWD/L CC	-	2.185	15.25
	2-2 (6) Solid waste disposal system improvement (Procurement of equipment for waste collection, transportation, dumping, pilot project for composting and community activity for cleaning)				TCC	TCC	5.059	35.30
Note: MoLHUD(Ministry of Land, Housing and Malawi)	Note: MoLHUD (Ministry of Land, Housing and Urban Development, MolWD (Ministry of Irrigation and Water Development), NRSCM(National Road Safety Council of Malawi), CBO(Community based Organization), MOAM(Minibus Owners Association of Malawi)	ganization),MO	AM(Minibu	Owners Asso	ociation of	Total	36.19	252.6

		Implementation Schedule	tation Sc	hedule	Resp. Organization	nization	Dev. Cost	ost
Sub-Program	Project	-2015	-2020	-2030	Implem-	Ope./	MKW	\$SO
					entation	mainte.	billion	million
	Urban transportation develop ment/improvement							
3-1. Urban Transportation	3-1 (1) Major road development & maintenance (M1, Ring, Radial)				RA	RA	18.258	127.40
Capacity Strengthening Sub- Program	3-1 (2) Traffic control management establishment (Improvement of Intersections, Improvement of Car Parking System)				RA/LCC	RA/LCC	0.688	4.80
	3-1 (3) Other transportation improvement (Modernization of Airport Navigation System, Improvement of Airport Baggage Handling System)				MoTPI	ADL	1.003	7.00
	Urban utility development, rehabilitation, and expansion							
3-2. Urban Utility Improvement Sub-Program	3-2 (1) Water supply system development/improvement (Development of Diamphwe Dam as new source, Development of new water treatment plant)			N	MoIWD/L WB	LWB	3.153	22.00
	3-2 (2) Sanitation system improvement (Rehabilitation of Lumbadzi STP)				CC		0.036	0.25
Note: MoTPI (Ministry of Transportation, Publi	Note: MOTPI (Ministry of Transportation, Public Infrastructure), MoIWD (Ministry of Irrigation and Water Development), ADL (The Airport Development Limited), NRSCM (National Road Safety Council of Malawi)	Malawi)				Total	23.14	161.5
					ļ			

		Implemen	tation S	hedule	Implementation Schedule Resp. Organization	nnization	Dev. Cost	ost
Sub-Program	Project	-2015 -2020 -2030	-2020	-2030		Implem- Ope./ entation mainte.	MKW	US\$
4-1. Park and Green Development Sub-Program	4-1 (1) Park construction (1 area park, 6 neighborhood park, 1children park)				CC	CCC	0.006	0.04
4-2. Natural Greenery	4-2 (1) Afforestation of 1,520ha barren land in area 45 and 54 (Lumbazi)				CC	ССС	0.100	0.70
Preservation Sub-Program	4-2 (2) River side trees rehabilitation				CCC	TCC	0.004	0.03
						Total	0.11	0.11 0.77

Program	Public Administration E for Urban Management	inhancement Pro	ogram	Sub- Program	Institution Sub-Prog		on of Urban	Development MP		
Name of Project	Legalization of 2030 La	nd Use Plan		Program Code No	1-1 (1)	,	ID No	CD1		
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementa Organizatio		Operation /Maintenance Organizations	Expecte	ed Bei	neficiaries	Expected Time Required		
Implementation	0.03	LCC		-	People	in Lilo	ongwe City	6 months		
		Pr	oject D	escription						
Main Objectives	To legalize the 2030 lan	d use plan formu	lated by	the Lilongwe Urban	Developme	ent MF	•			
	(i) Preparation of a legal document on the 2030 land use plan  (ii) Authorization of the "2010 Outline Zoning Scheme" by the Planning (Mil. US\$)							dule		
Sub-Projects/	Committee						Short	0.03		
Scope of Works		ii) by the Minist	er resp	onsible for town an	d country		Middle	-		
	planning						Long	-		
	Rationale	S		Status			Oth	ers		
Remarks	The zoning scheme of is legally authorized und	. ,		roject is acknowledg rned parties.	ed by the		experienced Outline Zoni	legalization of the ng Scheme.		
External	Technical Assis	tance*		Financial Assistanc	e*		Other s	upports		
Supports	E			E			A(from N	foLHUD)		
Environmental Key Issues	Anticipated impacts: No EIA required: No	impacts.								
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Preparation of a conditions of Lilo v) infrastructural Review and autonomittee. Final approval of Development.  Project implementation:  a) The Steering Conduct the aboot b) LCC should approximate the director (Conduct in preparation).	document for the angwe City in 201 development, are chorization of a fithe 2010 Outline formative scope of work ropriate budget from missioner) of on of the 2010 o	e 2010 0, 2020 nd vi) tin docume e Zoning under t as. or legali Physica utline zo	outline Zoning Sche Outline Zoning Sche O and 2030, iii) legal so Deframe of new zoning Outline Zoning the so Deframe by the min Deframe by the min Deframe by the min Deframe by Irban E Deframe by Irban	me, contain status and in ag. 2010 Outlin nister of the Development use plan.	. ning i) v) expl ne Zor Minist nt MP	background, lanation of ne ning Scheme try of Land, H would appoint	by the Planning ousing and Urban t staff members to quested to take a		

	Public Administration I	Enhancement Progra	m for	Sub-	Institutiona	lization of Urba	ın D	evelopment MP
Program	Urban Management			Program	Sub-Progra	am		
Name of Project	Review of Mater Plan			Program Code No	1-1 (2)	ID No		CD2
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementations		Operation /Maintenance Organizations	Expected	Beneficiaries	E	Expected Time Required
Study	0.2	LCC		-	People in	Lilongwe City		3 months
		Proj	ject De	escription				
Main Objectives	To update the Lilongw	e MP in the middle a	nd long	-term time frame				
	(v) Updating of	omic and land use su of the 2030 land on and utility) formula	use p	lan and infrastru	ctural plan	Investment so (Mil. US\$)	hed	ule
Sub-Projects/ Scope of Works	` '	dation for legal arrar			I 2030 land	Short		-
Coope of Works	use plan if r	_	J	,		Middle		0.1
						Long		0.1
	Ration	ales		Status			Othe	ers
Remarks	The City's developm frame is consistent implemented under a	with the MGDS		dical review of M red by the TCPA.	P is legally		not r	ne 1986 Zoning eviewed, should
External	Technical As	sistance*		Financial Assista	nce*	Othe	er su	pports
Supports	В			А		A (fro	m M	olHUD)
Environmental Key Issues	Anticipated impacts: N EIA required: No	lo impacts.						
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Coordination we transportation/we Review of inverse Recommendat  Project implementation e) Both LCC and f) LCC should ag g) The project will h) Strengthening	Lilongwe Urban Dever with relevant stakehol utility plan and project stment plan based or ion for legal arranger in: MoLHUD should code opropriate budget or so I be carried out in 20 of socio-economic C may seek for dono	Iders we take form the Monent for the decident of the monent for t	with respect to adjusted in the 2010 IP adjusted. IP adjusted 2030 IP adju	MP.  I land use play  the of works for the ementation of the management	on if necessary.  for the project.  If the project.  It is indispensable	a m	id-term frame. r the project. If

Program	Public Administration Urban Management	Enhancement	Program for	Sub- Program	Capacity Effective	Development Urban Managemen	Sub-Program for			
Name of Project	Urban Plan and Deve	elopment Mana	agement	Program Code No	1-2 (1)	ID No	CD3			
Type of Project	Indicative Capital Cost (Mil. US\$)	Impleme Organiz		Operation /Maintenance Organizations	Expect	ed Beneficiaries	Expected Time Required			
Technical Cooperation	2.8	MoLGR MoLH		-	People	in Lilongwe city	3 years			
			Project De	escription		·				
Main Objectives	To attain good govern	nance of urban	plan and deve	elopment managem	nent					
	(vii) Institutiona	ation	n and	Investment sched (Mil. US\$)	lule					
Sub-Projects Scope of Works	` '			d building regulation em for developme		Short	2.8			
ocope of Works	building co		comoni syste	on to developine	ont and	Middle	-			
						Long	-			
	Rationale	es		Status		Otl	ners			
Remarks	The project is consis MGDS in the area of			t will be propose for technical coo CA.		The project contribution of stakeholders.	ributes to capacity LCC and other			
External	Technical Assis	stance*	Fin	ancial Assistance*		Other s	supports			
Supports	А			А		Cooperation	from MoLHUD			
Environmental Key Issues	Anticipated impacts: EIA required: No	No impacts.								
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	The new plant Scheme.  Inforcement in Implementation  The project sill is assumed to its assumed to outcome.  The Commission for coordination is several in the real in the r	system of land on system of land on: nould implement of be from April and Developm of urban plan a sioner for Physon with LCC in	use/building on use and but the course of	control, and a manualiding control, and of a fitter legalization of 2014.  Ent, LCC is the prime ent management we of the Director of Physics (the Director of Physics)	al for land capacity de f the 2030 e target for thile MoLG	use control. evelopment of staff r land use plan. Imple capacity building of RD supervises the ling Dep under MoL	2010 Outline Zoning			

Program	Public Administration E Urban Management	nhancement Pro	ogram for	Sub- Program			elopment S Managemei	-	m for	
Name of Project	Improvement of Land R	egistration Mana	agement	Program Code No	1-2 (2		ID No	CD4	4	
Type of Project	Indicative Capital Cost (Mil. US\$)	Implement Organizat		Operation /Maintenance Organizations	Expect	ed Ben	eficiaries	Expected Requi		
LCC own project	0.06	LCC/MoLH	HUD	-	People	in Lilo	ngwe city	10 yea	ars	
		Pr	oject Des	ription						
Main Objectives	Legal arrangement for	and registration i	in quasi-re	sidential and high de	ensity resi	dential	areas			
	<ul><li>(i) Enactment of housing bill</li><li>(ii) Establishment of land registration in quasi and high residential area</li></ul>						tment schee US\$)	dule		
Sub-Projects Scope of Works		of customary tend condominium bi					Short	0.0	3	
Scope of Works	(IV) Enactment of	CONCOMMINICITY DI					Middle	0.0	3	
							Long	-		
	Rationale	S		Status			Oth	ers		
Remarks	Upgrading of unpland towards statutory ho consistent with the goal	using area is	recognize agencies	y of the project shed among the co such as LC VMoLGRD.	ncerned	Lusak becor projec	ne a good			
External	Technical Assis	stance*	F	inancial Assistance	<b>+</b>		Other su	upports		
Supports	E			E		Trair	ning of LCC s Lusak		ers in	
Environmental Key Issues	Anticipated impacts: No EIA required: No	impacts.								
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Quasi-residential shall establish the Customary tenu title to be registed.     Condominium be Project implementation.     m) LCC is requested in the condominium be condominium be condominium be condominium be condominium be condominium.  It would almost laws. According	Il (unplanned) sha different land re in public land, ered at the Departill would regulate and to appropriate take 10 years to by the project should formula in the project should be discovered to the project should be discovered in the project should be different land representation and the project should be different land representation and the project should be different land representation and the project should be discovered in the project should be disco	all be divided registration currently pertment of Landing high rise to implement of the could be executed by the could be	unplanned settleme led into "improveme system in both area ermitted under the lands. building standards in for implementation of the project since ecuted as the multi-y enhancement of LCG	nt area" a as in orde and Act, s high resident of the project rear budge	r to upg shall be dential a fect. et include et plan.	side improve grade resider e converted in area.	ment area	". LCC cate of	

Program	Public Administration Urban Management	Enhancement Pro	ogram for	Sub- Program	-	-	evelopment oan Manage	Sub-Program for ment
Name of Project	Enhancement of LCC administration, streaml	,	•	Program Code No	1-2 (	3)	ID No	CD5
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementa Organizati		Operation /Maintenance Organizations		Expedence	cted iaries	Expected Time Required
Implementation	0.06	LCC		-		LC	C	10 years
		Proj	ect Descri	otion				
Main Objectives	Institutional Strengther	ning of LCC includir	ng human re	esource developme	ent	1		
	` ,	al development of of junior and midd					stment sch . US\$)	edule
Sub-Projects/	-	LCC's staff mem	bers, partic	ularly a great nun	nber of		Short	0.03
Scope of Works		taff members ore staff members	(Human Re	source Developme	nt)		Middle	0.03
	(VIII) Training of C	ore stall members	(Human ive	source Developme	;iii)		Long	_
	Rationa	loc		Status				hers
	Strengthening of LCC		First of		should	The	project	is the basic
Remarks	the GoM's decentralize		recognize project a	the importance nd then urges L the project.	of the	requ	project direment elopment sub	for capacity
	Technical Ass	sistance*	Fir	nancial Assistance*			Other s	supports
External Supports	E C(HRE	<b>)</b> )		E C(HRD)		E	between LC	staff members CC and other nolders
Environmental Key Issues	Anticipated impacts: No	o impacts.						
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	q) LCC should con	Engineering Economic	3. Person  The state of the sta	plained in the chapthe project.	oter 10 (Ment, ince	Alain R	given to app	Education Education

Program	Public Administration Urban Management	n Enhancement Prog	gram for	Sub- Program		•	relopment n Managem	Sub-Program for nent
Name of Project	Institutional Strengtl Implementation	nening for Priority	Projects	Program Code No	1-2 (	4)	ID No	CD6
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementati Organization		Operation /Maintenance Organizations		Expecte eneficiar		Expected Time Required
Implementation/	0.1	LCC		-		LCC		2 years
		Proj	ect Desci	ription				
Main Objectives	Strengthening of LCC in road development/maintenance, sewerage and solid v						anagement	
							ment sche	dule
Cub Businetal		ent of the Engineer	ing Depai	tment for impleme	ntation	5	Short	0.1
Sub-Projects/ Scope of Works		n priority projects ent of the Health an	d Commu	ınity Services Depa	ırtment	N	/liddle	-
	for impleme	ntation of SWM prio	rity projec	ets		L	Long	-
	Rationa	ales		Status			Oth	ners
Remarks	Strengthening of implementation of consistent with the policy.	its projects is	·	nificance of the prognized by LCC yet.	•		Authority perate with	(RA) is requested LCC.
	Technical As	sistance*	Fi	nancial Assistance	+		Other s	supports
External Supports	A(road project Sanitation, and SWM development project consults	projects and park ts from in-house	-	E(road projects) ors financing mobili: n-house consultant		to B	Blantyre Wa ds assistand	ter Board. LCC ce from Blantyre sembly.
Environmental Key Issues	Anticipated impacts: NEIA required: No	lo impacts.						
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	database projection urban arterial results for second members for second projects in sand and the LCC should club club club club club club club club	n: eek for donors' fund pordinate with RA in a scheduled to be	ed to gra peration ved to pro waste m ority proje conditions for mobilis	dually empower playith RA.  spose appropriate stanagement. This sects.  It is for transfer of sects.  It is a section of in-house of the priority projects.	anning, budget, would b werage consultat	O&M s the pr works to  nts.  mentation	and project system, pro re-condition b LWB base n.	t management for oper number staff of for other priority and on the Blantyre

Program	Urban Living Envi	ronment Improv	ement	Sub- Program	Living Sub-Prog	Environment	Improvement
Name of Project	Strengthening of Lar Property Records, La		ystem:	Program Code No	2-1 (1)	ID No	CD7
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementati Organization		Operation /Maintenance Organizations	Expected	d Beneficiaries	Expected Time Required
Implementation/ TA	0.1	LCC		-		LCC	20 years
		Pre	oject De	escription			
Main Objectives	To equip basic tools for	or land registration	in THA	/unplanned settleme	ent		
	data		·	cadastral mapping	and GIS	Investment sch (Mil. US\$)	edule
Sub-Projects/	` '	ding holding syster				Short	0.04
Scope of Works	` ′	f vehicles for land ation of subdivisio	•	ot allocation plan		Middle	0.03
		management syst	•	•		Long	0.03
	Rationa			Status		-	thers
Remarks	The project is consis alleviation policy of M	tent with poverty		necessity of the prized by LCC, but			
	Technical Ass	sistance*		Financial Assistant	ce*	Other	supports
External Supports	C ( computer system land records		B (v∈	chicle and computer	system)		
Environmental Key Issues	Anticipated impacts: NEIA required: No	lo impacts.					
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	development Development Land recording The project co Project implementatio v) LCC should s management w) The project is	and building cont Management Proje g system in unplan uld contribute to re n: eek for sustainable system subject to Enhanc scheduled to be	rol. In the ct. ned set edevelope e finance	this sense, the protection of LCC Administration	oject is closselential area) settlement donors, par	sely related to the shall be establish through land adjusticularly establish	

Program		ronment Improv	rement	Sub-	Living	Environment	Improvement		
	Program			Program	Sub-Progra	m in THA/Unpla	nned Settlement		
Name of Project	Fund Creation fo Infrastructure Develop	,	Social	Program Code No	2-1 (2)	ID No	CD8		
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementati Organization		Operation /Maintenance Organizations	Expected	Beneficiaries	Expected Time Required		
Implementation/ TA	0.05	LCC		NGO	· ·	HA/unplanned lement	2 years		
		Pro	oject De	escription					
Main Objectives	Fund Creation and Ma	anagement							
Sub-Projects/ Scope of Works	(xx) Legal arrangement for "Fund" to be generated through land adjustment method  (xxi) Establishment of "Fund" management system  (xxii) Study on unplanned settlement where is to be redeveloped through land adjustment method								
	(xxiii) Implementa	tion of "Fund" ut	Short	0.05					
	developmer	nt	Middle	-					
	(xxiv) Information	(xxiv) Information management system from (i) to (iv)							
Remarks	The project is consist alleviation policy in MI								
External	Technical Ass	istance*		Financial Assistar	ice*	Other	supports		
Supports	C (TA might be nece management	•		C (TA portion)					
Environmental Key Issues	Anticipated impacts: NEIA required: No	lo impacts.							
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	reporting on fu  method.  The project wo  Project implementatio  y) The project s  Management''  z) The Planning  unplanned set	nd utilization as we igger off facilitation utilization as we igger off facilitation utilization utilization and contribute to utilization.  hould coordinate and "Strengthenin and Development tlement for subdivi	ell as man of redense pgrading with other of Lares Departs ision plane.	anagement of comrevelopment of unplants g of quasi-residentiants her priority project and Registration Syst	nunity social anned settler al area, name s such as "eem".  r with NGOs at.	infrastructure de ment through law ely, the statutory Improvement of would be respo	ful land adjustment		

Program	Urban Living Environment Program	nment Improveme	ent Sub- Program	Living Enviror THA/Unplanne	•	ent Sub-Program in			
Name of Project	Improvement of Strengthening of Organization (CBO)	Social Service Community-base	Program Code No	2-1 (3)	ID No	CD9			
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementation Organizations	Operation /Maintenance Organizations	Expected E	Beneficiaries	Expected Time Required			
Study/ Implementation	0.05	LCC	СВО		HA/unplanned ement	2 years			
		Pro							
Main Objectives	Improvement of living	environment in TH	A and unplanned settle	ement					
Sub-Projects/	(xxv) Identify public services that can be transferred to CBOs and annual budget for those services (xxvi) Training of CBO candidates for implementation of services (xxvii) Implementation of pilot projects by CBOs								
Scope of Works	(xxviii) Evaluation	of pilot projects	·		Short	0.05			
	(xxix) LCC budg	et appropriation	for promising CBO-	based public	Middle	-			
	services de	livery			Long	-			
	Rationa	es	Status		0	thers			
Remarks	The project is of poverty alleviation po	licy in MMDGs.	Malawi does not experion project. The project and project as public (CBO) cooperation sch	ect would be (LCC)-private					
	Technical Ass	istance*	Financial Assis	tance*	Other	supports			
External Supports	C (TA might be neces of CBOs and implem projects)		C (TA portio	on)	-	sist LCC in training tion of pilot projects			
Environmental Key Issues	Anticipated impacts: I	No impacts.							
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	<ul> <li>EIA required: No</li> <li>Project descriptions: <ul> <li>LCC is able to extend the similar service provision to THA/unplanned settlement based on performance of pilot projects.</li> <li>The project could contribute to community-based activities and income generation even outside THA/unplanned settlement.</li> <li>The project could enhance sustainable creation of formal employment.</li> </ul> </li> <li>Project implementation: <ul> <li>bb) The Planning and Development Department, LCC is liable for strengthening of CBOs. Training of trainer (TOT) would be the likely method so that LCC would seek for external fund financing TOT and implementation of pilot projects.</li> <li>cc) The Departments of LCC should coordinate among them in order to identify the likely public services that can be transferred to CBOs. Solid waste collection could be one of such services so that the project should coordinate with "solid waste disposal system improvement".</li> </ul> </li> </ul>								

Program	_	onment Impro	ovement	Sub-		iving	Environment	Improvement
Name of Project	Program  Transportation Deve Community Road THA/Unplanned Settle	vement; ent in	Program Program Code No	5	2-1 (4)	ID No	RD32/50/56	
Type of Project	Indicative Capital Cost (Mil. US\$)	Implemen Organiza		Operation /Maintenanc Organization		Expected	Beneficiaries	Expected Time Required
Construction	24.2	24.2 RA/LCC/ RA/LCC/ People it MoLHUD s						Throughout the entire planning period
		ı	Project D	escription				
Main Objectives	To improvement in livir	ıg environmen	t					
		Urban and		y Community	Road		vestment sche fiil. US\$)	dule
Sub-Projects/	(ii) Road mainte	enance and rel	nabilitatior	n of (i)			Short	8.4
Scope of Works							Middle	5.2
							Long	10.6
	Rationales	3		Status			Ot	hers
Remarks			No fund	is secured yet.				
External	Technical Assist	ance*	F	inancial Assista	nce*		Other	supports
Supports	D			D				
Environmental Key Issues	Anticipated impacts: N EIA required: No	o negative imp	act.			1		
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Project Location:  Project descriptions:  RD32; Improvement of RD50; Upgrading to Pr RD56; Road Maintena	imary Commu	inity Road	I in Area 57	v s	50 1.5	Legend Widewing to 4 Lember Construction Improvement New Construction Improvement Number; Project Killometers	a Round  The Round Works Sterganoods  The No.

					1			
Program	Urban Living Env Program	rironment Improv	vement	Sub- Program		ronment Improve nned Settlement	ement Sub-Program in	
Name of Project	Urban utility developments water provision of safe cleaning education settlement	kiosk develo latrine, compos	pment, sting &	Program Code No	2-1 (5) (i)	ID No	WS 6	
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementa Organizatio		Operation /Maintenance Organizations	Expected	Beneficiaries	Expected Time Required	
DD and Construction	11.7	LWB/CBC	)	LWB/CBO	People in	Lilongwe City	Throughout the entire planning period	
			Project	Description	•	1		
Main Objectives	To provide improve	d water supply se	ervice to	the people of Lilon	gwe City in TI	HA/Unplanned se	ettlement	
	(i) New service connection (ii) New kiosk (iii) Water meter  Investment schedule (Mil. US\$)							
Sub-Projects/ Scope of Works						Short	1.0	
						Middle	3.8	
						Long	6.9	
	Rationa	les		Status		(	Others	
Remarks	To achieve the target water coverage, ne connections and kid provided.	w service	kiosk ex in MPU\ water m extensio	ear service connectension program is WSP. The procurer eters and funds for in short term are in NWDP II.	s included ment of r service	yet secured.	g term finance is not	
External	Technical Ass	sistance*		Financial Assistand	ce*	Othe	r supports	
Supports	F			F				
Environmental Key Issues	Anticipated impacts EIA required: No	: Provision of ser	vice con	nection only, no im	ipact.			
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	THA/Unplanned se settlement is estimarea (Low/Middle/H	Settle ection 49,000 2,550 1,200 1,200 1 US heses are for sho r Team ent for new ser ttlement is estimated at to be US digh density area ent. For instance,	(1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,250)  (1,	- (-) 3,800 (3,800)  (1)+(3)= US\$22.3 Mil.  Innection, new kione US\$ 34.0 million while the reper supply services this kis included in	US\$34.0 sk, and wate n. Out of whi emaining (US	otal Mil.  r meter in residence, those requires \$ 22.3 million) f 2-1(5) are those	dential area including ed for THA/Unplanned or planned residential e applied to THA and not included in water	

	1			<b>I</b>	T				
Program	Urban Living Environment Program	onment Improv	rement	Sub- Program	_	onment Improve lanned Settlemer	ment Sub-Program		
Name of Project	Urban utility develo expansion; water provision of safe la cleaning education settlement	kiosk develop	oment, ing &	Program Code No	2-1 (5) ( ii )	ID No	<b>SS</b> 5		
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementa Organizatio		Operation /Maintenance Organizations	Expected	Beneficiaries	Expected Time Required		
Providing hardware	32.0	MoIWD/LWB	/LCC	NGO	-	HA/unplanned	Throughout the entire planning period		
		P	roject [	Description					
Main Objectives	To bring low income pe	eople under safe	sanitat	ion practice					
Sub-Projects/	**	(i) Provide hardware for the VIP latrine; (ii) Provide support for proper construction; and (Mil. US\$)							
Scope of Works					-	Short	6.0		
						Middle	10.0		
						Long	16.0		
	Rationale	s		Status		0	thers		
Remarks	The currently used dug latrines are among the sanitation practices.		MPUV provisi years.	urrent EU/EIB funder VSP project includer Ion of 29,640 latrine This is only for shor 3.0 million)	s the es in 5	not yet secured.	g term finance is		
External	Technical Assis	stance*		Financial Assistan	ıce*	Other	supports		
Supports	А			А		Support fron	n manufacturers		
Environmental Key Issues	Anticipated impacts: P	ositive impact or	nly.		1				
	Project descriptions:								
	Provision of	Ventilated Impro	oved Pit	(VIP) latrines hardy	vare				
		of current pit latr							
				usage of the latrines					
Project				erials and skills, and		ınd			
Location, Project		_		er grant or no-intere	st revolving it	ina			
descriptions Scheme, or Drawings or Project Implementation	*VIP latrines for THA is an interim measures								

_	Urban Living Enviro	nment Improv	ement	Sub-	Living Envi	ronment Improvei	ment Sub-Program		
Program	Program	•		Program	_	lanned Settlemen	-		
Name of Project	Urban utility develop expansion; water provision of safe la cleaning education settlement	kiosk develop trine, compost	ment, ing &	Program Code No	2-1 (5) (iii)	ID No	SW 10		
Type of Project	Indicative Capital Cost Mil. US\$)	Implementa Organizatio		Operation /Maintenance Organizations	Expected	Beneficiaries	Expected Time Required		
TA	0.2					THA/unplanned tlement			
		F	Project	Description					
Main Objectives	Promotion of participa	atory solid waste	e mana(	gement (Composting	)				
Sub-Projects/ Scope of Works	(ii) Selection o (iii) Training of people	(i) Selection of the community participating in the project (ii) Selection of waste collector and other actors (iii) Training of the community and other concerned organization and people  Investment schedule (Mil. US\$)							
		•	`	private nursery		Short	0.2		
	-		-	work for sustainab	ility of the	Middle	-		
	project					Long	-		
	Rationale	es		Status		O	thers		
Remarks	Cooperation of stake as community, NGOs firms are necessary for solid waste managem	s, and private or sustainable		roject is on going by rom 2008 to 2011.	UNDP and				
External	Technical Assis	stance*		Financial Assistan	ce*	Other supports			
Supports	F			F					
Environmental Key Issues	Primary factors for El.	A: none							
	Project descriptions:								
	UNDP and the stakel	nolders includin	g the L	CC, NGOs, and a pi	rivate compa	ny have been cor	nducting the project		
	named "Waste for W	/ealth, Promoti	ng Zero	Waste Environmer	nt" since 200	8. Composting t	through community		
	participation is one of	the major aspe	ects of th	nis UNDP project.					
Basis of Lagretica	It is expected that the				food security	enhance soil fer	tility generate data		
Project Location, Project	and information for p						, ,		
descriptions					car commun	ly and reduce cos	sis associated with		
Scheme, or	municipal solid waste management at city level.								
Drawings or Project	The project is conduc	The project is conducted at a small scale. It is expected that the applied system would be expanded to other areas							
Implementation	and communities will make use of the outcome from the project.								

Program	Urban Living Enviror	ment Improveme			•	ent Sub-Program in
Name of Project	Program  Urban utility develops expansion; water k provision of safe lat cleaning education settlement	iosk developmer rine, composting	& Program	2-1 (5)	ID No	SW 12
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementatio Organizations	/Maintenance	Expected E	Beneficiaries	Expected Time Required
TA	1.4	MoIWD/LWB/LC	C NGO		HA/unplanned ement	
		Pı	oject Description			
Main Objectives	Promotion of participa	atory solid waste r	nanagement (Cleanin	g Education)		
Sub-Projects/ Scope of Works	community (ii) To identify (iii) To monitor (iv) To inform	several participatin community activiti the public about	em to subsidize the ng communities es and performance the community's co		Investment sch (Mil. US\$)	nedule
l	effect of the				Short	1.2
			ng participating comn		Middle	0.2
	(vi) To expand	the number of par	ticipating communities	5	Long	-
	Rational	es	Status		(	Others
Remarks	Project will lead per problem and their res solid waste					
External	Technical Ass	istance*	Financial Assi	stance*	Othe	r supports
Supports	С		С			
Environmental Key Issues	Primary factors for El	A: none				
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	promotion, the responsion SWM, it is expected Since the market for a collection of recyclab	vareness creation nsibility of waste of d that this project recyclables such a les has not been	is also considered in generators should also will lead people to rea as aluminum, steel, pa so attractive for the ge	the ongoing U  be recognized  alize that they comper and plastic  eneral people in	NDP project. In  To encourage pould contribute to Sidoes not exist in the cluding the poor. In	addition to sanitation beople's responsibility SWM.

				T		
Program	Urban Living Environ Program	iment Improvemei	nt Sub- Program	Transportation Sub-Program	and Urban Utility	Services Upgrading
Name of Project	Urban Road Maintenance/Rehabi Inventory Database	Construction an	Program	2-2 (1)	ID No	RD22/30/34/38/ 42/43/45/52/56/ 57
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementation Organizations	/Maintenance	Expected E	Beneficiaries	Expected Time Required
TA	85.2	LCC/RA	LCC/RA	Road Users in	n Lilongwe City	Throughout the entire planning period
		P	roject Description			
Main Objectives	To Utilization of resou	urces				
Sub-Projects/	(ii) Road main	n of Urban and Pr tenance and reha ent of Road invent		nd	Investment sc (Mil. US\$)	hedule
Scope of Works			Short	33.2		
					Middle	16.7
					Long	35.3
	Rationa	les	Status	S	(	Others
Remarks						
External	Technical Ass	sistance*	Financial Ass	sistance*	Othe	er supports
Supports	D		D			
Environmental Key Issues	Anticipated impacts: EIA required: No	No negative impa	ct.			
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	RD30; Widening of P RD34; Widening and RD38; Widening of M RD42; Upgrading to RD43; Upgrading to RD45; Upgrading to	residential Drive I Improvement of Murray Road Urban Road in Are Urban Road in Are Urban Road in Are Urban Road in Are of Primary Commu	ea 7 & 8 ea 36 & 37 ea 22 & 24 unity Road to Presiden	tial Drive	Urban  Urban  Urban  Urban  Urban  Urban  Urban  Urban  Urban	Urban

Program	Urban Living Envir	onment Improveme	ent Sub-	Transportation	on and Urban	Utility Services						
Program	Program		Program	Upgrading S	ub-Program							
Name of Project	Public Transporta (Expansion of Minibu Review of Minibus O	us Depot in Old Tow	n, Program	2-2 (2)	ID No	PT02/04						
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementation Organizations	Operation /Maintenance Organizations	Expected	Beneficiaries	Expected Time Required						
TA	0.8	LCC	LCC/NOAM		ers in Lilongwe City	1 year						
		Pro										
Main Objectives	To improvement publ	ic transport environr	ment.									
Sub Brainata/		investment schedule										
Sub-Projects/ Scope of Works					Short	0.8						
					Middle	-						
					Long	-						
	Rationa	ales	Status		0	thers						
Remarks	Congestion minibus depot.  Increase of public transport users is expected.  Managed by MOAM. No fund is secured yet.											
External	Technical As	sistance*	Financial Assi	stance*	Other	supports						
Supports	D		D									
Environmental Key Issues	Anticipated impacts: EIA required: No	No negative impact.			,							
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Proposed New Min Depot Ar Boardin.  Boardin.  Future Arri  Project descriptions:  PT02; Expans PT04; Review	ibus ea Waiting ar wai	Waiting area Relocated Road  of in Old Town; Land p ation and Routes; S	Depot Depot Preparation & rel	g Minibus Area							

Program	Urban Living Envi Progaram	ronment Improv	rement	Sub- Program	Transportation Upgrading S		ban Utility Services			
Name of Project	Traffic Control Mana (Development of Saf Development of Saf Development of Cycle	ety Traffic Master e Pedestrian Ne	r Plan,	Program Code No	2-2 (3)	ID No	TS01/02/03			
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementat Organizatio		Operation /Maintenance Organizations	Expe Benefic		Expected Time Required			
TA	16.0	LCC/ NRSCM	ongwe city	Throughout the entire planning period						
		Р	roject [	Description						
Main Objectives	To achieve the safety	traffic condition								
		(BELL LICH)								
Sub-Projects/		ent of Cycle Road				Short	3.3			
Scope of Works						Middle	8.2			
						Long	4.5			
	Rationa	les		Status			Others			
Remarks	Traffic accidents have been increasing in Lilongwe City.  Road Accidents Database managed by the National Road Safety Council in conjunction with the Malawi Police Service.									
External	Technical Ass	istance*		Financial Assista	nce*	0	ther supports			
Supports	D			D						
Environmental Key Issues	Anticipated impacts: EIA required: No	No negative impa	ct.							
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	EIA required: No  Project Location: All the roads in Lilongwe City.  Project descriptions:  TS01; Improvement of Safety Traffic Master Plan Study on Safety Traffic Master Plan Planning of Review of road traffic law, Accident database system development, Revision of road design guidelines  TS02; Development of Safe Pedestrian Network Sidewalk installation and/or widening at heavy pedestrian traffic sections Pedestrian crossing installation at intersections Pedestrian bridge installation at intersections and road widening Pedestrian signal installation at intersections and road widening TS03; Development of Cycle Road Network Study on cycle road network system Installation of cycle roads Construction of cycle roads									

Program	Urban Living Env	rironment Impr	ovement	Sub-	Transpor			n Utility Services		
Name of Project	Program  Water St  Development/Impro  Extension and I  Reduction Program	Development,	System (Service NRW	Program Program Code No	2-2 (4)		-Program ID No	WS 6		
Type of Project	Indicative Capital Cost (Mil. US\$)	Implemen Organiza		Operation /Maintenance Organizations	Expected Beneficiaries			Expected Time Required		
DD and Construction	22.3	LWB/C	30	LWB/CBO	People	in Lilo	ngwe City	Throughout the entire planning period		
					<u>'</u>					
Main Objectives	To provide improve	d water supply	service to	the people of Lilon	gwe City in	low/m	niddle/high resi	dential area		
	(iv) New serv (v) New kios (vi) Water me		estment sche I. US\$)	dule						
Sub-Projects/ Scope of Works	(vi)	7.01				Short	2.0			
ocope of Works							Middle	7.2		
					Long	13.1				
	Rationa	les		Status			O	thers		
Remarks	To achieve the targe water coverage, ne connections and kid provided.	w service	in MPU\ water m extension	wsp. The procurement of leters and funds for service on in short term are also			secured.	term finance is not		
External	Technical Ass	sistance*	1	Financial Assistanc	e*		Other	Other supports		
Supports	F			F						
Environmental Key Issues	Anticipated impacts EIA required: No	: Provision of s	ervice con	nection only, no im	pact.	•				
			Unplanned	Low/Middle/High Density Area	Tota	al				
	①New Service Conn	nection 49,0	00 (4,000)	15,200 (12,300)	201,000 (1					
	②New Kiosk ③Water Meter		50 (400) 00 (1,250)	- (-) 3,800 (3,800)	2,550 (4 5,000 (5	400) 5000)				
Project	Total Cost		   (1)+(2)+(3):   US\$11.7 Mi			Tota 34.0 Mi				
Location, Project	*numbers in parent	heses are for sl	nort term							
descriptions Scheme, or	Source: JICA Study	Team								
Drawings or Project Implementation	*Refer to the Projec	ct Sheet 2-1(5)	(i)							

Program	Urban Living Env	vironment Imp	rovement	Sub- Program		tation and Urb g Sub-Program	oan Utility Services	
Name of Project	Development/Improv	upply ement Development,	System (Service NRW	Program Code No	2-2 (4) ( ii )	ID No	WS 7	
Type of Project	Indicative Capital Cost (Mil. US\$)	Implement Organizat		Operation /Maintenance Organizations		spected eficiaries	Expected Time Required	
System improvement	8.0 LWB/CBO LWB/CBO Peop					n Lilongwe City	Throughout the entire planning period	
			Project De	escription				
Main Objectives	To reduce the current	t loss of 44% to t	target loss	of 25% in 2030				
	( )	ysical loss ministrative loss ater availability				Investment sch (Mil. US\$)	nedule	
Sub-Projects/ Scope of Works	(iv) Improve fir			Short	2.0			
ocope of Works	(v) Preserve re	esources				Middle	2.0	
						Long	4.0	
	Rational	es		Status		Others		
Remarks	Reduction of NRW w reduce the load on th treatment plant but a operation cost and in efficiency.	e source and Iso reduce the	-	ar NRW reduction ped in MPUWSP.	-	Medium and lon yet secured.	g term finance is not	
External Supports	Technical Ass	istance*	F	inancial Assistance F	*	Othe	r supports	
Environmental Key	Anticipated impacts: EIA required: No	System improve	I ment activi	ties only, no impact				
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	SCADA tel     Data logge     Pipe work     Pressure n	and tools for lead emetry system, rs with data tran repair material, a nonitoring and co to accomplish en mobilized on lead	sfer capab and ontrol valve the above	n, ilities, es. e project. The ser	vice contra	actor (Vitens-Ev	ides International of	

Program	Urban Living Envii Program	onment Impro	ovement	Sub- Program		rtation and Urbang Sub-Program	an Utility Services		
Name of Project	Sanitation System Improvement (Preparation of Sewerage and Sanitation Master Plan, Sanitation Promotion Campaign, Study on on-site Sanitation (OSS) Management)  Program 2-2 (5) Code No (i)								
Type of Project	Indicative Capital Cost (Mil. US\$)	Implement Organizati		Operation /Maintenance Organizations		xpected neficiaries	Expected Time Required		
Study	1.0	MoIWD/L	People i	n Lilongwe City	12 months				
Main Objectives	A strategic sanitation p			scription					
,	(i) Implementat (ii) Define LCC's	ion plan for hands s role in the inte stem developme	dover fron			Investment scho (Mil. US\$)	edule		
Sub-Projects/ Scope of Works	(iv) Identify shor	t, middle and lor ion plan with inv	ng term pr	•	-	Short Middle	1.0		
	Rationale					Long	- others		
Remarks	implementation of	This master plan to be prepared for implementation of component D of the on-going the National Sanitation Policy  This master plan is under component D of the on-going WB-funded NWDP II							
External	Technical Assis	tance*	F	inancial Assistance	*	Other	supports		
Supports	F			F					
Environmental Key Issues	Anticipated impacts: St EIA required: No	udy only, no neg	gative imp	act.					
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	LWB).  Define LCC's ro Confirm vision, Compile basic i Compile inform Analysis of amb Detail the syste Determine the o Define applicab Identify short, n Estimate invest	Project descriptions:  Review the National Sanitation Policy and prepare an implementation plan for service handover (from LCC to							

Program	Urban Living Environ	onment Imp	rovement	Sub- Program		•	tion and Urb Sub-Program	oan Utility Service	
Name of Project	Sanitation System Important Sanitation Promotion on-site Sanitation (OSS	nitation Mas Campaign,	ter Plan, Study on	Program Code No	2-2 ( ii	` '	ID No	SS 4	
Type of Project	Indicative Capital Cost (Mil. US\$)	Impleme Organiz		Operation /Maintenand Organization	ce	_	ected ficiaries	Expected Time Required	
Public awareness campaign	13.5	)/LCC	-	Peop	le in l	Lilongwe City	Throughout the entire planning period		
			Project De	scription					
Main Objectives	Increase public awarene	ess through t	ne sanitatio	n marketing ap	proach				
	( )	and treatmen		the household	•	(1	nvestment sch Mil. US\$)	nedule	
Sub-Projects/ Scope of Works	(ii) access to an latrine; and	id effective u	ise of a sa	anitation facility	y such as	a	Short	5.0	
ocope or monito	(iii) hand washing	with soap					Middle	3.5	
		,					Long	5.0	
	Rationales			Status			(	Others	
Remarks	Sanitation project, espe on-site sanitation syster be successful without w participation.	Hygiene F Sanitation	n called "Sanita Promotion throu Marketing" is This is only for million)	ugh included in		ledium and lon et secured.	g term finance is no		
External	Technical Assista	ince*	Fi	nancial Assista	ınce*		Othe	r supports	
Supports	A			А				as Volunteer	
Environmental Key Issues	Anticipated impacts: Pul	blic awarenes	ss building o	only, no negativ	/e impact.				
	Project descriptions:								
	Item Primary •		ription e landlord	Secor	ltem ndary		Descrip     Ministry	otion	
Project Location,	audience	Tenant/us School ch Commun Teachers Religious	ser parents hildren ity leaders leaders	audie			<ul> <li>LWB, LCC</li> <li>Other cor agencies</li> <li>Media</li> <li>NGOs</li> <li>Latrine bu</li> <li>Pit empty</li> </ul>	uilders ing providers	
Project descriptions Scheme, or	component	Target							
Drawings or Project Implementation	Product availability								
	Promotion tools	Cultural s Posters, I Visit by ca Teaching Deliberati	how, drama eaflets, nev ampaign sta in school	a, song contest vsletter, T-shirts					

Program	Urban Living Envi Program	ronment Improv	rement	Sub- Program	-	rtation and Url	ban Utility Services		
Name of Project	Sanitation System Im of Sewerage and S Sanitation Promotion on-site Sanitation (OS:	Plan,	Program Code No	2-2 (5) (iii)		SS 6			
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementat Organizatio		Operation /Maintenance Organizations		xpected neficiaries	Expected Time Required		
Study	0.75	MoIWD/LC	Peopl	e in Lilongwe City	12 months				
		Proj	ect Des	cription					
Main Objectives	A study to formulate of management unit	on-site sanitation	manage	ement strategy, FS	for collec	tion and treatme	ent, Support for OSS		
	(i) Preparation and treating		for mor	nitoring, cleaning, c	ollecting	Investment so (Mil. US\$)	chedule		
Sub-Projects/	(ii) Support for (	OSS managemen	t unit.			Short	0.75		
Scope of Works						Middle	-		
						Long	-		
	Rational	es		Status			Others		
Remarks	Currently, there is no capproach for septic tar		No fur	nd is secured yet.					
External	Technical Assi	stance*		Financial Assistanc	e*	Othe	er supports		
Supports	В			С		Overse	as volunteers		
Environmental Key Issues	Anticipated impacts: S EIA required: No	tudy only. No nega	ative imp	pact.					
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Anticipated impacts: Study only. No negative impact.  ElA required: No  Project descriptions:  Estimate the current septic tanks and prepare inventory (size, chambers, access point).  Estimate the current and future septage generation.  Determine the cleaning frequency.  Estimate daily septage collection over the years.  Review various collection methods and recommend the most optimum.  Calculate the required number of collection vehicles.  Prepare the monitoring regime for septic tank cleaning, including the possibility of GIS database.  Fix tariff and its collection method.  Study the possibility of communal septic tank.  Conduct public awareness program.  Review various treatment methods and recommend the most optimum.  Complete initial assessment of the septage treatment facility.  Prepare implementation plan and cost estimate.  Evaluate the whole program from technical, financial, economic, environmental, social and institutional aspects.								

T				I		1					
Program	Urban Living Program	Envir	onment Improve	ment		Sub- ogram			and Urban -Program	Utility	Services
Name of Project	Solid Waste Disposal System Improvement (Procurement of Equipment for Waste Collection, Transportation, Dumping, Pilot Project for Composting and Community Activity for Cleaning)					rogram ode No	2-2 (6)		ID No		SW 3 SW 7
Type of Project	Indicative Capital Cost (Mil. US\$) Implementation Operation /Maintenance Organizations						EVACTAR RANATICISTIAS			ected Time equired	
Procurement	35.3		LCC			LCC	Peop	le in Lilo	ngwe City		
			Pr	oject [	Descrip	tion					
Main Objectives	Improvement of	colle	ction of solid waste	and la	andfill o	peration					
	``	·	n of equipment					Invest (Mil. U	ment schedu IS\$)	ile	
Sub-Projects/	(iii) Traini	ng for	operation and ma	intena	nce of e	equipment pro	cured		Short		2.8
Scope of Works								N	/liddle		12.9
									Long		19.6
	Ra	ationa	les			Status			Othe	ers	
Remarks	-		of equipment is ve solid waste			ct has been nment of Mal					
External	Technic	al Ass	sistance*		Financ	ial Assistance	)*		Other su	pports	
Supports		В				Α					
Environmental Key Issues	Primary factors	for El	A: none								
Project Location, Project descriptions Scheme, or Drawings or Project	Enhancement of The first phase equipment, the Preparations should continue to the Current operation to the Current operat	Project descriptions:  Enhancement of waste collection capacity should be conducted periodically to satisfy the waste collection demand.  The first phase of the project is intended to be implemented in the short-term. In order to make use of the equipment, the LCC has to prepare human and financial resources for waste collection and transportation.  Preparations should be made for the second and third phases of the project because more equipment for waste collection will be necessary as the collection area and population increase.  Current operation of the existing dumping site is insufficient or can be considered as almost no management. The LCC should commence regular operation and management at the dumpsite as soon as possible to prevent the negative environmental impacts from the disposed wastes.									
Implementation	-	Equipment         Spec         Short (2015)         Medium (2020)         Long (2030)           _         Compactor truck         9.7 ton         9         14         113									
		14 29	113	=							
		Collection	Skip carrier Skip		10 ton 6 m <sup>3</sup>	30		120	-		
		ŏ	Tipper truck		-	1		1	4		
			Wheel loader		2 m <sup>3</sup>	1		1	1		
		=	Bulldozer	2	20 ton	1		2	4		
		Landfill									
		_	Excavator	(	0.8 m <sup>3</sup>	1		1	1		
			Supervisory vehicle	e 2	500 cc	1		1	1		

Type of Project	ID No eneficiaries	RD03/04/05/10/16/ 18/56 Expected Time								
Type of Project Cost (Mil. US\$) Implementation Organizations Organizations Organizations Organizations	eneficiaries	Expected Time								
Pood Horra		Required								
TA 127.4 RA/LCC RA/LCC Cit	in Lilongwe ty	Throughout the entire planning period								
Project Description										
Main Objectives   To traffic congestion alleviation, connection during cities										
(ii) Preparation of Ring Road	Investment so (Mil. US\$)	hedule								
Sub-Projects/ (iii) Preparation of Radial Road  Scope of Works (iv) Road maintenance and rehabilitation	Short	62.4								
(iv) Road maintenance and renabilitation	Middle	15.2								
	Long	49.8								
Rationales Status	(	Others								
Remarks  Serious traffic congestion of Old Town area. Lack of capacity of M1 road, and the capacity limit of Roundabout.  Support of Japan is under request.(M1:RD03/04/05)	area. Lack of capacity of M1 road, and request.(M1:RD03/04/05)									
External Technical Assistance* Financial Assistance*	Othe	er supports								
Supports C A										
Environmental Anticipated impacts: No negative impact.  Key Issues EIA required: Although it may be necessary, there is no issue mentioned especia	ally.									
Project Location:										
Project descriptions:  RD03; Widening of M1 Area 18  Roundabout - Mchinji Roundabout	1									
Project Location, RD04; Widening of M1 Old Town Area Project	New Cor Improver No trives	g to 4 Lawis Road  notations  ment  form [Maintaneous Fortubalization: Works Respan  Project ID								
descriptions Scheme, or Drawings or  Dravings or  Chidzanja Road	- Chidzanja Road									
Project Implementation  RD10; Improvement of Northern Outer  Ring Road I										
RD16; Improvement of S123 in Area 50										
RD18; Widening of S124 (Likuni Road) in Area 3										
RD56; Road Maintenance Program										

T				I		
Program	Economic Infrastruc Program for Economic		Sub- Program	Urban Trai Sub-Prograi	nsportation Cap n	acity Strengthening
Name of Project	Traffic Control Manage (Improvement of Improvement of Car Pa	Intersections,	Program Code No	3-1 (2)	ID No	TM01/03
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementation Organizations	Operation /Maintenance Organizations	Expected	Beneficiaries	Expected Time Required
TA	4.8	RA/LCC	RA/LCC		and Pedestrian ngwe City	Throughout the entire planning period
		Project	Description	•		
Main Objectives	To traffic congestion al	eviation, safety, comm	ercial activation			
		t of Intersections t of Car Parking Syste	m		Investment sch (Mil. US\$)	edule
Sub-Projects/ Scope of Works					Short	2.5
ocope of Works					Middle	1.3
					Long	1.0
	Ratio	nales	Statu	ıs	C	Others
Remarks	Regional traffic conges parking demand for increases.			ured yet.		
External	Technical /	Assistance*	Financial As	sistance*	Other	r supports
Supports	1	)	D			
Environmental Key Issues	Anticipated impacts: No	o negative impact.				
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Project descriptions:  TM01; Improve Installatio Improvem Signalizat Channeliz TM03; Improve Parking g Study on Building c Legislatio	ons, Commercial area ment of Intersections; n of traffic signals at in ment of existing traffic s ion of roundabout ting, lane rearrangemen ment of Car Parking Si uideline car parking system code establishment to a n of building code ion of parking facilities ent of parking manage	tersections without ignals int, widening ystem accommodate park	·		

Program	Economic Infrastructure Program for Econom		ent Sub- Program	Urban Trans Sub-Program	sportation Ca	apacity Strengthening		
Name of Project	Other Transportat (Kamuzu Internation Improvement Project	nal Airport Faci	Program	3-1 (3)	ID No	AT01/ AT02		
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementatio Organizations	/Maintenance	Expected Be	Expected Time Required			
TA	7.0	MoTPI	Malawi nati	ion/ Visitor	1 year			
		Pı	roject Description					
Main Objectives	To global standardiza	tion of Kamuzu In	ternational Airport					
	**	tion of navigation sent of Baggage Ha	•		Investment (Mil. US\$)	schedule		
Sub-Projects/ Scope of Works					Short	7.0		
ocopo el monto					Middle	-		
					Long	-		
	Rationa	les	Status	<b>;</b>		Others		
Remarks	Annual growth rate of cargo at Kamuzu Airport during 2000-1.05% 1.04% respe	International 2007 were and	A navigation system by Government of Ja No fund is availabl handling system as y	pan. e for baggage				
External	Technical Ass	istance*	Financial Ass	istance*	Ot	ther supports		
Supports	А		А					
Environmental Key Issues	Anticipated impacts: EIA required: No	No negative impad	ct.					
Project Location, Project descriptions Scheme, or Drawings	- Standar finish on • Improvement	of Navigation Systimation of the nav September 2010. Of Baggage Handl		eds to procureme ea Expansion;	nt and constru	system is scheduled to ction stage.		

	Economic Infrastru	oturo Enh	ancement	Sub-					
Program	Program for Economic		ancement	Program	Urban Utility Improvement Sub-Program				
Name of Project	Water Sup Development/Improver Diamphwe Dam Development of New V	ment (Develo as New Vater Treatm	Source, ent Plant)	Program Code No Operation	3-2 (1) (i) ID No Expected		WS 1		
Type of Project	Indicative Capital Cost (Mil. US\$)	Impleme Organiz		/Maintenance Organizations	E Ber	Expected Time Required			
F/S, DD/ Construction	14.0	MoIWD	)/LWB	LWB	People i	Study: 2 years in Lilongwe City Implementation: 3 Years			
	T		Project De	escription					
Main Objectives	To meet the growing w	ater demand	of Lilongw	e City (Diamphwe I	Dam)				
Sub-Projects/	(i) FS for new source (ii) Detail design of the					Investment sch (Mil. US\$)	edule		
Scope of Works	(iii) Construction of the m3/d).	dam and as	sociated str	ructures (Capacity 1	25,000	Short	14.0		
	moraj.				-	Middle	-		
	Rationales			Status		Long	 Others		
Remarks	Current source cannot meet the requirement after 2015.  "Feasibility Studies and Preliminary Design for Lilongwe's New Water Source" is now on-going under the WB-funded NWDP II.								
	Technical Assista	ance*		nancial Assistance	•	Othe	r supports		
External Supports	F (only study A (for construct	,	ļ	F (only study) A (for construction)					
Environmental Key Issues	Anticipated impacts: La EIA required: yes	and acquisition	on and rese	ttlement impact dur	ing constr	uction.			
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Anticipated impacts: Land acquisition and resettlement impact during construction.  EIA required: yes  Project descriptions:  Feasibility study & preliminary design (ongoing)  Detailed design and supervision consultancy,  Land acquisition and resettlement compensation,  Construction of dam and associated structures like road and canal,  Dam H = 22 m, Yield = 125,000 m3/day,  Raw water canaLCCpacity = 1,500 L/s, L = 16 km  The scope of the FS includes:  Topographic survey of the recommended dam site, future reservoir area and new treatment works site  Topographic survey of the transmission pipeline/canal  Geotechnical survey of the recommended dam site  Geophysical survey of the recommended dam site  Update of the design criteria  Hydraulic calculations  Development of the preliminary design for the different components of the project: dam and/or intake water treatment plant, transmission pipeline/canal, reservoir(s), pumping station(s), if needed  Preparation of the capital cost estimate of each project on the basis of the preliminary design  Environmental and social impact assessment  Economic and financial analysis								

Program	Economic Infrastru		hancement	Sub-	Urban	Utility	/ Improvemen	: Sub-Program
Name of Project	Program for Economic Water Sup Development/Improve Diamphwe Dam as Ne of New Water Treatme	oply ment (Devel w Source, De		Program Program Code No	3-2 (1 ( ii )		ID No	WS 4
Type of Project	Indicative Capital Cost (Mil. US\$)	Impleme Organi		Operation /Maintenance Organizations	Expected Beneficiaries			Expected Time Required
DD/ Construction	8.0	MolWI	D/LWB	LWB	People	e in L	ilongwe City	DD: 1 year, Construction: 3 Years
			Project Des	cription				
Main Objectives	To meet the growing w	ater demand	of Lilongwe	City (New Water Tr	eatment)	)		
	(ii) Land acquis	ition and rese	ettlement con				estment sche . US\$)	dule
Sub-Projects/		n of the WTP, n line, reserv		60,000 m3/day Imp			Short	8.0
Scope of Works		,	·	•			Middle	-
							Long	(8.0)
	Rationales			Status			Ot	hers
Remarks	Current WTP cannot n requirement after 2015		source F/S	ded in the on-going under the WB-fund fund is not secured ation.	led		se 2 cost of U uded in the pri	S\$ 8.0 million is not ority project
External	Technical Assista	ance*	Fin	ancial Assistance*			Other	supports
Supports	А			Α				
Environmental Key Issues	Anticipated impacts: La EIA required: yes	and acquisition	on and resett	lement impact durir	ng constr	uctio	n.	
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	<ul><li>Land acquis</li><li>Construction</li></ul>	ty in phase 1 ation	ettlement con atment plant	npensation, and associated stru	uctures.			

Program	Economic Infrastru Program for Economic		cement	Sub- Program	Urban Util	Jtility Improvement Sub-Program			
Name of Project	Sanitation System Imp of Lumbadzi STP	rovement(Rehab	ilitation	Program Code No	3-2 (2)	ID No	SS 8		
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementa Organizatio		Operation /Maintenance Organizations	-	ected ficiaries	Expected Time Required		
Rehabilitation work	0.25	MoIWD/LC	C	-	-	ving in north gwe City	12 months		
		Pr							
Main Objectives	To re-start the STP of	,200 m3/day cap	oacity se	rving northern area	s of Lilongw	e City			
		t of pipes and oth start of the STP		nvestment so (Mil. US\$)	chedule				
Sub-Projects/ Scope of Works						Short	0.25		
COOPC OF HOIRS						Middle	-		
						Long	-		
	Rationale	es		Status			Others		
Remarks	Currently this STP is now going river.	_	Ongoir	ng under LCC budg	et.				
External	Technical Assis	stance*	I	Financial Assistance	e*	Oth	er supports		
Supports	F			F					
Environmental Key Issues	Anticipated impacts: Re EIA required: No	ehabilitation only.	No neg	ative impact.					
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Cleaning of p	f flow meter and		iality measuring equ	uipment.				

Program				nhancement Pr	ogram	Sub- Program	Park and G	reen Developmen	t Sub-Program	
Name of Project				(1 Area Pa Children Park)	rk, 6	Program Code No	4-1 (1)	ID No	EP1	
Type of Project		ative Capi et (Mil. US\$		Implementat Organizatio		Operation /Maintenance Organizations	Expected	Beneficiaries	Expected Time Required	
Implementation		0.04		LCC		LCC	People in Lilongwe City 5 years			
				P	roject I	Description				
Main Objectives	Enha	ncement of	recre	ation/greenery/r	elaxatio	n value in the capit	al city			
	(xxxii)	planne	ed	eighborhood par	nd area park	Investment sch (Mil. US\$)	edule			
Sub-Projects/ Scope of Works	(xxxiii	•		of parks planne	oration and	Short	0.04			
Ocope of Works	(xxxiv	mana			печ ра	rks in the area of op	Defation and	Middle	-	
	(xxxv)		_	· ion of PPP-base	ed pilot	projects		Long	-	
		Ra	tionale	s		Status		0	thers	
Remarks	The project is consistent with a series of Acts, i.e. the Garden Act enacted in 1987.  The Project has been plann Department of Parks, R and Environment, LCC.							rks, Recreation management would be ne		
		Technica	l Assis	stance*		Financial Assistar	nce*	Other	supports	
External Supports			Е			E		CBOs can be management in	involved in parks' the form of PPP	
Environmental Key Issues		pated impa equired: Ye		ositive greenery	and red	creation impacts on	areas where	parks are constru	cted.	
	Proje	ct descripti	ons:							
	List o	f Parks Pla Location	nned: Area	Classificatio	n	Remarks	Conservati	on Areas	-	
	1	Area10	5.0	Neighborhood		PPP	-53	K	w.A.	
	2	Area18	2.0	Neighborhood (	<u> </u>	JS\$10,900	1	2 0	5 8	
Project	3	Area 28	3.0	Neighborhood	_	JS\$10,900	7	1	73	
Location, Project descriptions	4	Area49	1.0	Neighborhood p		location	2	副人		
Scheme, or	5	Area4	3.0	Neighborhood p	park L	JS\$ 4,790	XX	XX	3	
Drawings or	6	Area4	0.2	Children's	F	PPP	775	X	Folk !	
Project Implementation				playground			1	1	The same	
	7	Area4	10.0	Area park		JS\$ 6.300	Legend	1	3783	
	8	Area 8	2.0	Neighborhood p	рагк   С	JS\$ 6,700	Communities Commun	trya Book	Treat.	

Brogram	Urban Environment	Enhancement P	rogram	Sub-	Natural Croon	on, Proconation	Sub Brogram
Program	for Creation of Attrac			Program	ivaturai Green	ery Preservation	T Sub-Program
Name of Project	Afforestation of 1,5 Area 45 and 54 (Lun		and in	Program Code No	4-2 (1)	ID No	EP2
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementa Organizati		Operation /Maintenance Organizations	Expected Beneficiaries Expected Requir		
Implementation	0.70	LCC		LCC	People in L	ilongwe City	10 years
			Project	Description			
Main Objectives	To help the urban po	or obtain firewoo	od at an a	affordable price in	a sustainable m	anner	
		urban demand a	and supp	ly of firewood		Investment sc (Mil. US\$)	hedule
Sub-Projects/		forestation area				Short	0.35
Scope of Works		ation of forestati and maintenand		d on (III)		Middle	0.35
	(XIII) Operation					Long	-
	Rational	es		Status		(	Others
Remarks	The project is cons basic principle of MM		Departr	oject has been ponce of Parks, Research, LCC.	•		
External	Technical Ass	stance*		Financial Assista	ance*	Othe	r supports
Supports	В			Α			
Environmental Key Issues	Anticipated impacts: EIA required: Yes	Positive greene	ry impact	s on areas where	forestation is ca	rried out.	
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	forestation. b) LCC could need	Area 45 on uire technical a	member		ration and main		to (iii) and fund for planted so that LCC

B	Urban Environment Enhancement Program			Sub-	National Occiden	L Crange December 1			
Program	for Creation of Attractive Capital City			Program	Natural Greenery Preservation Sub-Program				
Name of Project	River Side Trees Rehabilitation		Program Code No	4-2 (2)	ID No EP3		EP3		
Type of Project	Indicative Capital Cost (Mil. US\$)	Implementation Organizations		Operation /Maintenance Organizations	Expected Beneficiaries		Expected Time Required		
Implementation	0.03	LCC		LCC	People in Lilongwe City		10 years		
Project Description									
Main Objectives	To preserve greenery environment along river sides								
Sub-Projects/ Scope of Works	(x) Implementation of tree planting (xi) Maintenance of trees planted					Investment schedule (Mil. US\$)			
						Short		0.015	
						Middle 0.0		0.015	
					Long		-		
	Rationales		Status			Others			
Remarks	afforestation policy of Department of		The project was planned by the Department of Parks, Recreation and Environment of LCC.						
External	Technical Assistance*		Financial Assistance*			Other supports			
Supports	E			E					
Environmental Key Issues	Anticipated impacts: No impacts. EIA required: Yes								
Project Location, Project descriptions Scheme, or Drawings or Project Implementation	Project descriptions:  It would take about 10 years to grow trees planted in river side area, however rivers and streams as buffer zones shall be protected.  The project would contribute to improvement of urban amenity.  The project triggers off income generation for labors who plant tree seeds.  Project implementation:  dd) CBOs might be candidates for operation and maintenance of the project so that LCC would render raining services to them.  ee) In connection with a), the project should coordinate with the priority project of 2-1(3)								