

CHAPTER 16
CONCLUSION AND RECOMMENDATIONS



16. CONCLUSION AND RECOMMENDATION

16.1 Conclusion

The feasibility study proved that the high priority projects select in the master plan study are technically, economically and environmentally viable with a high economic internal rate of return.

The projects should be implemented as early as possible according to the implementation schedule proposed in Fig. 14.1. The projects involve no requirements for land/house acquisition, resettlement and compensation for commercial activities.

16.2 Recommendation

In order to materialize the projects, the Study Team recommends MOWTC to take the following actions:

(1) Allocation of a Local Budget for Project Preparation

The project does not involve procedures such as the acquisition of additional land, demolition of housing/building and resettlement of residents, however, it is necessary for MOWTC to prepare local funds for the relocation of electric and telephone poles in limited areas.

Acquisition of local funds for these preparatory works and disbursement of expenses on time are a prerequisite for the smooth implementation of the project.

(2) Strengthening of the Maintenance Capability of MOWTC

For the utilization of materialized traffic facilities by the project, maintenance works have to be provided in an organized manner with strengthening of the MOWTC maintenance unit.

This requires,

- Strengthening and organization of the maintenance unit,
- Education and training of personnel, and
- Installation of maintenance equipment and machinery.

Table 16.1 Priority Order of Short Term Program

Priority	Proposed Project	Expected Effect on Urban Traffic Improvement
<p>First Priority Projects to be executed during (1998 - 2001)</p>	<p>[Package 1]</p> <ul style="list-style-type: none"> - Improvement of five (5) junctions which are hindering smooth urban traffic flow. Five junctions include, Port Bell/Jinja Road Junction, Kibuye Junction, Natete Junction, Wandegeya Junction Makerere Junctions. <p>[Package 2]</p> <ul style="list-style-type: none"> - Improvement of Natete Road where the road condition is substandard compared with growing traffic demand due to potential accessibility of this road connecting the western part of the city with northern part. - Improvement of Gaba Road, where the pavement has deteriorated the traffic volume is drastically increasing due to rapid residential development in nearby area. 	<ul style="list-style-type: none"> • Reduction of queuing delay • Streamlining of traffic flow on the connected roads • Reduction of traffic accidents at junctions where most of the traffic accidents are taking place at present. • Reduction of traffic concentration in the city center due to inducement of traffic which bypass the city center. • Easy access between a suburban area and the central business district.
<p>Second Priority Projects to be executed during (2001 - 2005)</p>	<p>[Package 3]</p> <ul style="list-style-type: none"> - Improvement of Port Bell Road, where the road capacity is expected to be saturated in near future due to the rapid deterioration of road surface as a result of increasing industrial related heavy vehicles. <p>[Package 4]</p> <ul style="list-style-type: none"> - Improvement of Gayaza Road, where deterioration of the pavement is progressing with the passage of inter regional heavy vehicles. <p>[Package 5]</p> <ul style="list-style-type: none"> - Improvement of Hoima Road - Improvement of Jinja Road Junction, which is one of the bottleneck junctions in urban traffic flow. Coordinated implementation with Nakiuubo Channel Improvement Program to be financed by EU is requested. 	<ul style="list-style-type: none"> • Strengthening of function of road radiating to the south east area of the district. • Strengthening of function of radial road connecting northern part of the region with Kampala city. • Strengthening of function of radial road connecting northern eastern region with Kampala city • Reduction of queuing delay. • Streamlining of traffic flow on the connected roads. • Reduction of traffic accidents at the junction and in the nearby area.

Table 16.2 Summary of Project Feature

Project Description	Content and Dimension of Project							Minimum Radius (m)
	Area (sq. m)	Type of Junction	Right Turn Lane (m)	Through/Left Turn Lane (m)	Length of Storage (m)	Right of Way (m)	Number of Lanes	
Bottleneck Junction Improvement Project								
Natete Junction	9,000	Signaled	3.0	3.5	60		13	
Makerere Junction	6,300	Rotary	3.0	3.5	60		13	
Kibuye Junction	8,200	Rotary	3.0	3.5	60		13	
Port Bell/Jinja Road Junction	5,800	Signaled	3.0	3.5	60		13	
Wandegeya Road Junction	13,000	Signaled	3.0	3.5	60		13	
Jinja Road Junction	10,000	Rotary	3.0	3.5	60		13	
Road Section Improvement Project	Design Speed (km/h)	Length (km)	Carriage way (m)	Pedestrian way (m)	Right of Way (m)		Number of Lanes	
Natete Road		3.8	3.5	3.0	20.0		2	
Gaba Road		9.1	3.5	3.0	20.0		2	
Port Bell Road		4.8	3.5	3.0	20.0		2	
Gayaza Road		4.6	3.5	3.0	20.0		2	
Hoima Road		8.5	3.5	3.0	20.0 ~ 30.0		2	

(3) Reinforcement of Traffic Legislation, Institutional Build-up and Promotion of Traffic Education

It is strongly recommended that in parallel with the physical development of transport infrastructure, support is given to the development of institutions, legislation and education related to traffic affairs.

(4) Coordination with related Ongoing/Proposed Development Scheme

It is also recommended that the Project should be coordinated with the ongoing/proposed development schemes of the city. These include the First Urban Project by Kampala City Council, KCC Car Park Project and Nakivubo Channel Development Project proposed by EU. Special attention should be paid to the water channel development project as it effects the design and engineering work of the project.

(5) Establishment of Comprehensive Legislation for Environmental Protection

It is predicted that the environmental situation will worsen due to an increase in traffic and intensified urban landuse near the project sites. Therefore, it is recommended that the surveillance system for environment protection be strengthened with periodic motor vehicle inspections and the provision of a penalty code in case of violation of the above.

(6) Improvement of Public Transport Services

It is expected that the matatu will remain as the major means of road transport in the city for the foreseeable future. However, at present this public transport is operated in a disorderly manner and service level is substandard. It can be predicted that the improved roads will be used chaotically for this public transport, should strict regulation on those vehicles and/or improvement measures of services not be undertaken.

(7) Establishment of Construction Yard

A construction yard for the purpose of project execution should be established at a suitable location considering all the project sites. The site requires about 10,000 sq. meters for the office, stock yard for construction machinery and equipment. The site which is now used as the construction yard for Entebbe road under the EU project is recommended to be used for the project, with the arrangement of MOWTC. The location of the base camp is shown below.

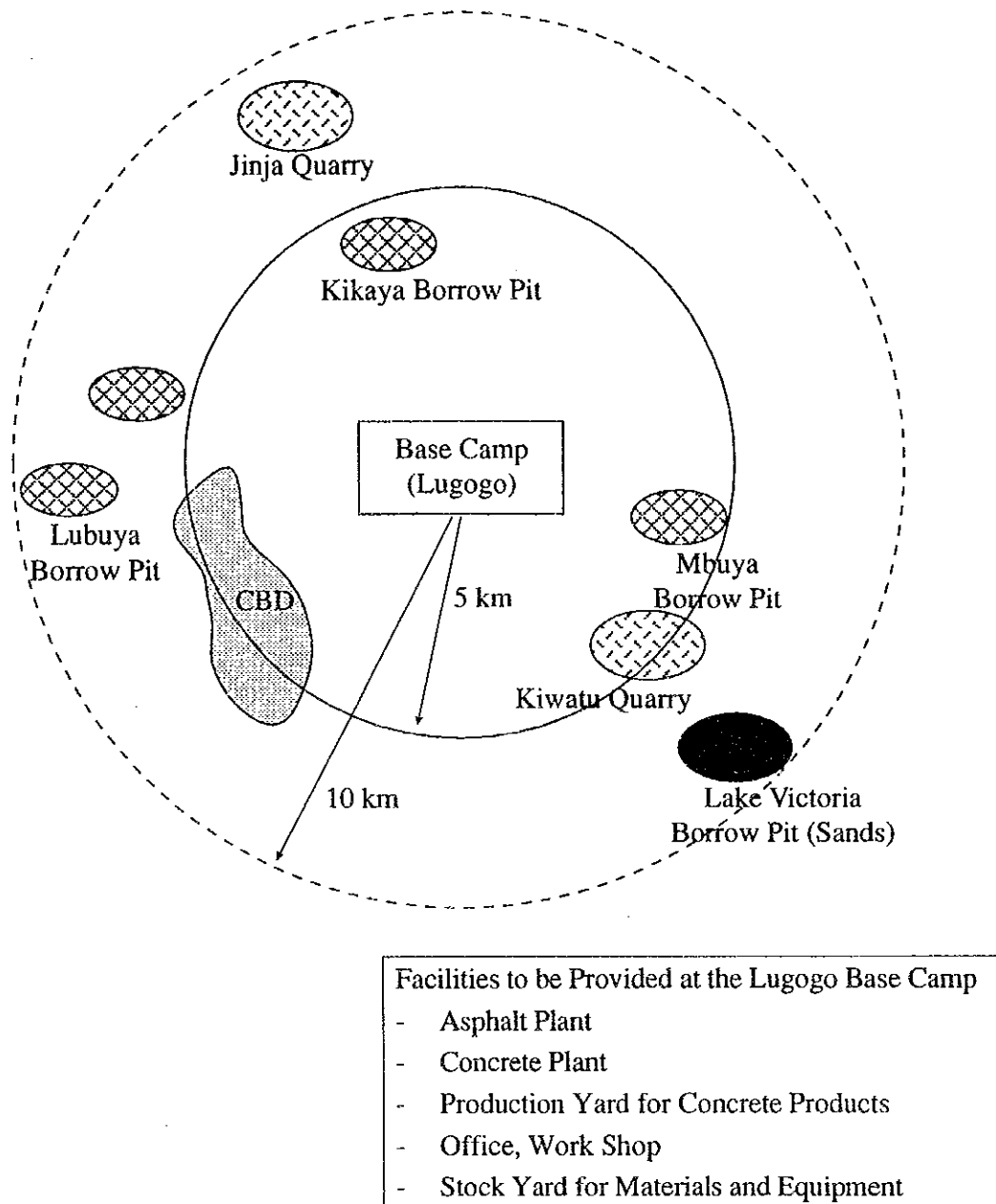


Fig. 16.1 Concept of Base Camp for the Project Implementation

(8) Implementation of the Project under a Sub-contractor Method

For the purpose of reducing the project cost, it is strongly recommended that the Project should be implemented under a sub-contractor method, utilizing the machinery and equipment held by Ugandan contractors as much as possible. The sub-contractor is to be selected on the basis of their capability in terms of earth work, pavement work, drainage work, and so on.

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Appendix 3
Road Inventory Survey Results

Road Inventory Survey

Area	Name of Road	Queens Way (Masaka)			From To			Beginning of			Clock Tower			End of			Bussega Roundabout	Length	8.3	Km	
		6Km	6.5	7Km	7Km	7.5	8Km	8Km	8.5	9Km											
	Distance	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30					
A	Right of way Width	26.4	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
B	Number of Lanes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	Single	6.3	10.2	9.1	10.6	10.1	9.4	11.2	10.2	9.5	9.5	9.8	9.7	10.2	8.4	9.6	8.5	7.8	8	9.6	8.8
	Separate																				
C	Shoulder Width	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
D	Sidewalk Width																				
E	Type of Pavement	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Asphalt																				
	Gravel																				
	Earth																				
	Others																				
F	Type of Drainage																				
	Open Ditch (Earth)																				
	Open Ditch (Concrete)	R	R																		
	U Type Ditch																				
	L Type Ditch																				
	Others Typed Ditch																				
	Crossing Drainage	+60																			
G	Utility	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L
	Electricity																				
	Telephone																				
	Watersupply																				
	Distance																				
A	Right of way Width																				
B	Number of Lanes																				
	Single																				
	Separate																				
C	Shoulder Width																				
D	Sidewalk Width																				
E	Type of Pavement																				
	Asphalt																				
	Gravel																				
	Earth																				
	Others																				
F	Type of Drainage																				
	Open Ditch (Earth)																				
	Open Ditch (Concrete)																				
	U Type Ditch																				
	L Type Ditch																				
	Others Typed Ditch																				
	Crossing Drainage																				
G	Utility																				
	Electricity																				
	Telephone																				
	Watersupply																				

Road Inventory Survey

Area	Name of Road		Lubiri ring Road		Beginning of Masaka Road		End of Mengo		Length		Km	
	0	1	0.5	1	1.5	2	2.5	3	3.5	4		6
	Distance											
A	Right of way Width	30	20	21.7	14.6	20	20	20	20	20	20	20
B	Number of Lanes	2	2	2	2	2	2	2	2	2	2	2
	Single	5	4.2	6.2	6	4	4.4	4.2	2.8	14.4	5.4	7
	Separate											
C	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
D	Sidewalk Width											
E	Type of Pavement											
	Asphalt											
	Gravel											
	Earth											
	Others											
F	Type of Drainage											
	Open Ditch (Earth)	L										
	Open Ditch (Concrete)											
	U Type Ditch											
	L Type Ditch											
	Others Typed Ditch											
	Crossing Drainage											
G	Utility											
	Electricity											
	Telephone	L	L									
	Watersupply											
	Distance											
A	Right of way Width	20	14.3	20	15.3	20	14.7					
B	Number of Lanes	2	2	2	2	2	2					
	Single	4.4	4.4	3.6	3.8	4	3.4	9.1				
	Separate											
C	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
D	Sidewalk Width											
E	Type of Pavement											
	Asphalt											
	Gravel											
	Earth											
	Others											
F	Type of Drainage											
	Open Ditch (Earth)											
	Open Ditch (Concrete)											
	U Type Ditch											
	L Type Ditch											
	Others Typed Ditch											
	Crossing Drainage											
G	Utility											
	Electricity											
	Telephone	L	L									
	Watersupply											

Road Inventory Survey

Area	Name of Road			Gaba Road			Beginning of			Kiburi Road			End of			Gaba			Length			Km		
	0	0.5	1Km	1.5	2Km	2.5	3Km	3.5	4Km	4.5	5Km	5.5	6Km	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	
A	Distance	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
	Right of way Width	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Number of Lanes	9.7	7.1	7.4	7.1	6.2	6	5.8	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
B	Single																							
	Separate																							
	Shoulder Width	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	
C	Sidewalk Width																							
	Type of Pavement																							
	Asphalt																							
D	Gravel																							
	Earth																							
	Others																							
E	Type of Drainage																							
	Open Ditch (Earth)																							
	Open Ditch (Concrete)																							
F	U Typed Ditch																							
	L Typed Ditch																							
	Others Typed Ditch																							
G	Crossing Drainage																							
	Utility																							
	Electricity																							
H	Telephone																							
	Watersupply																							
	Distance	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
A	Right of way Width	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Number of Lanes	5.8	6.3	6.2	6	6.1	5.8	5.6	5.8	5.4	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	
	Single																							
B	Separate																							
	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	
	Sidewalk Width	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
C	Type of Pavement																							
	Asphalt																							
	Gravel																							
D	Earth																							
	Others																							
	Type of Drainage																							
E	Open Ditch (Earth)																							
	Open Ditch (Concrete)																							
	U Typed Ditch																							
F	L Typed Ditch																							
	Others Typed Ditch																							
	Crossing Drainage																							
G	Utility																							
	Electricity																							
	Telephone																							
H	Watersupply																							
	Distance	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
	Right of way Width	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
A	Number of Lanes	5.8	6.3	6.2	6	6.1	5.8	5.6	5.8	5.4	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	
	Single																							
	Separate																							
B	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	
	Sidewalk Width	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
	Type of Pavement																							
C	Asphalt																							
	Gravel																							
	Earth																							
D	Others																							
	Type of Drainage																							
	Open Ditch (Earth)																							
E	Open Ditch (Concrete)																							
	U Typed Ditch																							
	L Typed Ditch																							
F	Others Typed Ditch																							
	Crossing Drainage																							
	Utility																							
G	Electricity																							
	Telephone																							
	Watersupply																							

Road Inventory Survey

Area	Name of Road		Gaba Road		Beginning of Kibali Road		End of Gaba		Length		Km	
	6Km	30	30	30	30	30	30	30	30	30		8.5
A	Distance	30	30	30	30	30	30	30	30	30	30	9Km
	Right of way Width	2	2	2	2	2	2	2	2	2	2	20
	Number of Lanes	6.4	6.6	5.8	5.4	5.8	5.8	6.2	6.1	6.2	6	4.8
B	Single											
	Separate											
	Shoulder Width											
C	Sidewalk Width											
	Type of Pavement											
	Asphalt											
D	Gravel											
	Earth											
	Others											
E	Type of Drainage											
	Open Ditch (Earth)											
	Open Ditch (Concrete)											
F	U Typed Ditch											
	L Typed Ditch											
	Others Typed Ditch											
G	Crossing Drainage											
	Utility											
	Electricity											
H	Telephone											
	Watersupply											
I	Distance	20.2	20			17.5	20	16.9	14.7	10	10	2Km
	Right of way Width	2	2			1	1	1	1	1	1	
	Number of Lanes	4.9	5			3.5	4.4	3	3.2	3.2	3	
J	Single											
	Separate											
	Shoulder Width											
K	Sidewalk Width											
	Type of Pavement											
	Asphalt											
L	Gravel											
	Earth											
	Others											
M	Type of Drainage											
	Open Ditch (Earth)											
	Open Ditch (Concrete)											
N	U Typed Ditch											
	L Typed Ditch											
	Others Typed Ditch											
O	Crossing Drainage											
	Utility											
	Electricity											
P	Telephone											
	Watersupply											

Road Inventory Survey

Area	Name of Road		Port Bell Road		Beginning of		Lugogo		End of		Port Bell		Length		Km		
	0	1Km	1.5	2Km	2.5	3Km	3.5	4Km	4.5	5Km	5.5	6Km	6.7				
Distance																	
A	Right of way Width	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
B	Number of Lanes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Single	9.1	6.6	6.7	6.5	6.5	6.5	6.5	6.6	6.6	6.7	6.8	6.4	5.8	5.6	6.4	6.0
	Separate																
C	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
D	Sidewalk Width	RL															
E	Type of Pavement																
	Asphalt																
	Gravel																
	Earth																
	Others																
F	Type of Drainage																
	Open Ditch (Earth)	R	L	L	L	L	L	L	L	L	L	L	L	L	L	L	RL
	Open Ditch (Concrete)																
	U Typed Ditch																
	L Typed Ditch																
	Others Typed Ditch																
	Crossing Drainage																
G	Utility																
	Electricity																
	Telephone																
	Watersupply																
Distance																	
A	Right of way Width	18.4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
B	Number of Lanes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Single	5.7	6.1	6.2	5.9	5.8	6.2	6.4	5.2	6.4	5.0	5.8	6.3	6.4	6.3	6.0	6.1
	Separate																
C	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
D	Sidewalk Width																
E	Type of Pavement																
	Asphalt																
	Gravel																
	Earth																
	Others																
F	Type of Drainage																
	Open Ditch (Earth)	R															
	Open Ditch (Concrete)																
	U Typed Ditch																
	L Typed Ditch																
	Others Typed Ditch																
	Crossing Drainage																
G	Utility																
	Electricity																
	Telephone																
	Watersupply																

Road Inventory Survey

Area	Name of Road	From To	Beginning of	End of	Port Bell	Length	Km
6Km							
A	Distance	30	30	30	30	6.5	
B	Right of way Width	2	2	2	2		
	Number of Lanes	6.2	6.1	6.0	4.3	4.1	
	Single						
	Separate						
C	Shoulder Width	R.L	R.L	R.L	R.L	R.L	
D	Sidewalk Width						
E	Type of Pavement						
	Asphalt	○	○	○	○	○	
	Gravel						
	Earth						
	Others						
F	Type of Drainage	L	L	L	L		
	Open Ditch (Earth)						
	Open Ditch (Concrete)						
	U Typed Ditch						
	L Typed Ditch						
	Others Typed Ditch						
	Crossing Drainage						
G	Utility						
	Electricity						
	Telephone						
	Watersupply	L					
6Km							
A	Distance						
B	Right of way Width						
	Number of Lanes						
	Single						
	Separate						
C	Shoulder Width						
D	Sidewalk Width						
E	Type of Pavement						
	Asphalt						
	Gravel						
	Earth						
	Others						
F	Type of Drainage						
	Open Ditch (Earth)						
	Open Ditch (Concrete)						
	U Typed Ditch						
	L Typed Ditch						
	Others Typed Ditch						
	Crossing Drainage						
G	Utility						
	Electricity						
	Telephone						
	Watersupply						

Road Inventory Survey

Area	Name of Road		Natece Road		Beginning of		Bakuli Junction		End of		Natece Roundabout		Length		Km	
			0.5	1Km	1.5	2Km	2.5	3Km	4.0	4.0						
	Distance	25.4	30	30	17.1	13.8	20	20	20	20	20	20	20	20	20	20
A	Right of way Width	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
B	Number of Lanes	7.4	7.2	7.2	6.6	7.4	7	6.2	5.6	6.2	6	6	6	6.4	6.6	6
	Single															
	Separate			8x6												
C	Shoulder Width	L	L	L	L	L	R	RL	RL	RL	RL	RL	RL	RL	RL	RL
D	Sidewalk Width															
E	Type of Pavement															
	Asphalt															
	Gravel															
	Earth															
	Others															
F	Type of Drainage															
	Open Ditch (Earth)															
	Open Ditch (Concrete)															
	U Typed Ditch	L	L	L												
	L Typed Ditch															
	Others Typed Ditch															
	Crossing Drainage															
G	Utility															
	Electricity	R	R	L	L	L	L	L	L	L	L	L	L	L	L	L
	Telephone	R.L	R	L	L	L	R.L	R	R	R	R	R	R	R	R	R
	Watersupply															
	Distance	20	20	20	20.4	16.7	20	20	20	20	20	20	20	20	20	20
A	Right of way Width	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
B	Number of Lanes	6.6	6	6	6.2	6.6	6.6	6.6	6.2	5.4						
	Single															
	Separate									14.6x7.5						
C	Shoulder Width	R.L	R.L	R.L	R	R	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L
D	Sidewalk Width															
E	Type of Pavement															
	Asphalt															
	Gravel															
	Earth															
	Others															
F	Type of Drainage															
	Open Ditch (Earth)	R	L	R												
	Open Ditch (Concrete)															
	U Typed Ditch															
	L Typed Ditch															
	Others Typed Ditch															
	Crossing Drainage															
G	Utility															
	Electricity	L	R	L	L	L	R	L	L	R	R	R	R	R	R	R
	Telephone															
	Watersupply															

Road Inventory Survey

Area	Name of Road		Hoima Road		Beginning of Bakuli Junction		End of Nansana		Length		8.5 Km																	
	From To	0	0.5	1Km	1.5	2Km	2.5	3Km																				
A	Distance																											
	Right of way Width	20	19.3	14.1	20	27	22	20	18	22.6	Jct	22.3	21.4	21.5	29.7	20	30	30	30	27.8	30	30	25.5	30	23.5	30		
	Number of Lanes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Single	9	7.2	5	5.8	6.2	6.8	6.6	6.2	5.6	6.8	6.8	7.6	7.6	8.6	9.2	7.2	6.6	7.4	6	6.8	7	5.8	6	5.6	5.2	5.4	6
B	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
	Sidewalk Width																											
	Type of Pavement																											
	Asphalt																											
C	Gravel																											
	Earth																											
	Others																											
	Type of Drainage																											
D	Open Ditch (Earth)																											
	Open Ditch (Concrete)																											
	U Typed Ditch																											
	L Typed Ditch																											
E	Others Typed Ditch																											
	Crossing Drainage																											
	Utility																											
	Electricity																											
F	Telephone																											
	Watersupply																											
	Electricity																											
	Telephone																											
G	Watersupply																											
	Electricity																											
	Telephone																											
	Watersupply																											

Road Inventory Survey

Area	Name of Road		Hoinna Road		From IO		Beginning of		Bakali Junction		End of		Nansana		Length		8.5	Km
	6Km	30	30	30	25	30	30	30	25	20	25	30	30	30	20	25		
A	Distance	20	30	30	30	25	30	30	30	25	20	25	30	30	20	25	30	
	Right of way Width	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Number of Lanes	6.4	6	6	6	6	5.4	5.8	6	6	6	6.4	6	6	6.2	6	6	
B	Single																	
	Separate																	
C	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	
	Sidewalk Width																	
D	Type of Pavement																	
	Asphalt																	
E	Gravel																	
	Earth																	
F	Others																	
	Type of Drainage	RL	RL	L	L									RL	RL	RL	RL	
G	Open Ditch (Earth)																	
	Open Ditch (Concrete)																	
H	U Typed Ditch																	
	L Typed Ditch																	
I	Others Typed Ditch																	
	Crossing Drainage																	
J	Utility																	
	Electricity																	
K	Telephone																	
	Watersupply																	
L	Distance																	
	Right of way Width																	
M	Number of Lanes																	
	Single																	
N	Separate																	
	Shoulder Width																	
O	Sidewalk Width																	
	Type of Pavement																	
P	Asphalt																	
	Gravel																	
Q	Earth																	
	Others																	
R	Type of Drainage																	
	Open Ditch (Earth)																	
S	Open Ditch (Concrete)																	
	U Typed Ditch																	
T	L Typed Ditch																	
	Others Typed Ditch																	
U	Crossing Drainage																	
	Utility																	
V	Electricity																	
	Telephone																	
W	Watersupply																	
	Distance																	
X	Right of way Width																	
	Number of Lanes																	
Y	Single																	
	Separate																	
Z	Shoulder Width																	
	Sidewalk Width																	
AA	Type of Pavement																	
	Asphalt																	
AB	Gravel																	
	Earth																	
AC	Others																	
	Type of Drainage																	
AD	Open Ditch (Earth)																	
	Open Ditch (Concrete)																	
AE	U Typed Ditch																	
	L Typed Ditch																	
AF	Others Typed Ditch																	
	Crossing Drainage																	
AG	Utility																	
	Electricity																	
AH	Telephone																	
	Watersupply																	

Road Inventory Survey

Area	Name of Road	Jinja Road	From To	Beginning of	Lagogo Junction	End of	Niebetebe	Length	7.0	Km
6Km										
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Road Inventory Survey

Area	Name of Road	Jinja Road (2)		Beginning of		Jinja Road Roundabout		End of	Lugogo Junction	Length	Km
		0.5		1Km		1.5					
	Distance										
A	Right of way Width										
B	Number of Lanes	4	4	6	6	6	6	6	8	8	8
	Single										
	Separate	21.4	21.4	20.7	20.7	19.9	20.2	19.7	20.1	24	24
C	Shoulder Width										
D	Sidewalk Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
E	Type of Pavement										
	Asphalt	○	○	○	○	○	○	○	○	○	○
	Gravel										
	Earth										
	Others										
F	Type of Drainage										
	Open Ditch (Earth)										
	Open Ditch (Concrete)										
	U Typed Ditch										
	L Typed Ditch										
	Others Typed Ditch										
	Crossing Drainage										
G	Utility										
	Electricity										
	Telephone										
	Watersupply										
	Bridg										
	Distance										
A	Right of way Width										
B	Number of Lanes										
	Single										
	Separate										
C	Shoulder Width										
D	Sidewalk Width										
E	Type of Pavement										
	Asphalt										
	Gravel										
	Earth										
	Others										
F	Type of Drainage										
	Open Ditch (Earth)										
	Open Ditch (Concrete)										
	U Typed Ditch										
	L Typed Ditch										
	Others Typed Ditch										
	Crossing Drainage										
G	Utility										
	Electricity										
	Telephone										
	Watersupply										

Road Inventory Survey

Area	Name of Road	Lugogo by pass	From To	Beginning of	Lugogo Junction	End of	Buketa Junction	Length	2.4	Km
Distance										
A	Rough of way Width									
B	Number of Lanes	4	4	4	4	4	4	4	4	
	Single									
	Separate	14	18	14	16	14	14	14	14	
C	Shoulder Width									
D	Sidewalk Width	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	
E	Type of Pavement									
	Asphalt	○	○	○	○	○	○	○	○	
	Gravel									
	Earth									
	Others									
F	Type of Drainage									
	Open Ditch (Earth)									
	Open Ditch (Concrete)									
	U Typed Ditch									
	L Typed Ditch									
	Others Typed Ditch									
	Crossing Drainage									
G	Utility									
	Electricity									
	Telephone									
	Watersupply									
Distance										
A	Rough of way Width									
B	Number of Lanes									
	Single									
	Separate									
C	Shoulder Width									
D	Sidewalk Width									
E	Type of Pavement									
	Asphalt									
	Gravel									
	Earth									
	Others									
F	Type of Drainage									
	Open Ditch (Earth)									
	Open Ditch (Concrete)									
	U Typed Ditch									
	L Typed Ditch									
	Others Typed Ditch									
	Crossing Drainage									
G	Utility									
	Electricity									
	Telephone									
	Watersupply									

Road Inventory Survey

Area	Name of Road	Kira Road		Beginning of		Kilante Roundabout		End of		Kivatule		Length		Km
		0	0.5	1Km	1.5	2Km	2.5	3Km	3Km	3.5	4Km	4.5	5Km	
A	Distance	29.3	30	30	30	30	30	30	30	30	30	30	30	30
	Right of way Width	4	4	4	4	4	4	4	4	4	4	4	4	4
	Number of Lanes	4	4	4	4	4	4	4	4	4	4	4	4	4
B	Separate	13.6	13.9	13.5	14.1	13.9	14.3	13.4	12.5	17.7	13.8	18.8	6.8	7.2
	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
	Sidewalk Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
C	Type of Pavement	○	○	○	○	○	○	○	○	○	○	○	○	○
	Asphalt													
	Gravel													
D	Earth													
	Others													
	Type of Drainage													
E	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
F	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
G	Utility													
	Electricity													
	Telephone													
H	Watersupply													
	Asphalt													
	Gravel													
I	Earth													
	Others													
	Type of Drainage													
J	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
K	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
L	Utility													
	Electricity													
	Telephone													
M	Watersupply													
	Asphalt													
	Gravel													
N	Earth													
	Others													
	Type of Drainage													
O	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
P	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
Q	Utility													
	Electricity													
	Telephone													
R	Watersupply													
	Asphalt													
	Gravel													
S	Earth													
	Others													
	Type of Drainage													
T	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
U	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
V	Utility													
	Electricity													
	Telephone													
W	Watersupply													
	Asphalt													
	Gravel													
X	Earth													
	Others													
	Type of Drainage													
Y	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
Z	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
AA	Utility													
	Electricity													
	Telephone													
AB	Watersupply													
	Asphalt													
	Gravel													
AC	Earth													
	Others													
	Type of Drainage													
AD	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
AE	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
AF	Utility													
	Electricity													
	Telephone													
AG	Watersupply													
	Asphalt													
	Gravel													
AH	Earth													
	Others													
	Type of Drainage													
AI	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
AJ	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
AK	Utility													
	Electricity													
	Telephone													
AL	Watersupply													
	Asphalt													
	Gravel													
AM	Earth													
	Others													
	Type of Drainage													
AN	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
AO	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
AP	Utility													
	Electricity													
	Telephone													
AQ	Watersupply													
	Asphalt													
	Gravel													
AR	Earth													
	Others													
	Type of Drainage													
AS	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
AT	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
AU	Utility													
	Electricity													
	Telephone													

Road Inventory Survey

Area	Name of Road	Kira Road		Beginning of		End of		Length	Km
		6.5	7Km	7.5	8Km	8.5	9Km		
<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 6Km 7Km 8Km 9Km </div>									
A	Distance	20	30	25	30	30	30		
B	Right of way Width	2	2	2	2	2	2		
	Number of Lanes	4.1	5	4.6	4.2	4.2	4.2		
C	Shoulder Width	R.L	R.L	R.L	R.L	R.L	R.L		
	Sidewalk Width								
E	Type of Pavement								
	Asphalt								
F	Type of Drainage								
	Open Ditch (Earth)								
G	Utility								
	Electricity								
A	Distance								
	Right of way Width								
B	Number of Lanes								
	Shoulder Width								
D	Sidewalk Width								
	Type of Pavement								
F	Type of Drainage								
	Open Ditch (Earth)								
G	Utility								
	Electricity								

Road Inventory Survey

Area	Name of Road	Santenna Road		Beginning of		End of		Lubanyi	Length		Km
		From	To	1Km	2Km	3Km	4Km		5Km	6Km	
	Distance	0	0.5	1Km	1.5	2Km	2.5	3Km	4Km	5Km	6Km
A	Right of way Width	20	18.4	20	20	20	20	20	20	20	20
B	Number of Lanes	1	1	1	1	1	1	1	1	1	1
	Single	4.4	4.4	4.8	4.2	3.6	4.2	3.8	5	4	4.4
	Separate										
C	Shoulder Width	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L
D	Sidewalk Width										
E	Type of Pavement										
	Asphalt		○	○							○
	Gravel										
	Earth	○			○	○		○			○
	Others										
F	Type of Drainage										
	Open Ditch (Earth)										
	Open Ditch (Concrete)	R	R	R.L	R.L	R	R.L	R	L	R	L
	U Typed Ditch										
	L Typed Ditch										
	Others Typed Ditch										
	Crossing Drainage										
G	Utility										
	Electricity	L	R	R		R	R	R	R	R	R
	Telephone	R	L	L	L	L	L	L	L	L	R.L
	Watersupply										
	Distance	3Km	3.5	4Km	4.5	5Km	5.5	6Km			
A	Right of way Width	20	20	20	20	20	20	20	20	20	20
B	Number of Lanes	1	1	1	1	1	1	1	1	1	1
	Single	4.4	4	3.8	2.6	3	2.4	3.2	3.4		
	Separate										
C	Shoulder Width	R.L	R.L	R.L	R.L	R.L	R.L	R	R.L		
D	Sidewalk Width										
E	Type of Pavement										
	Asphalt										
	Gravel										
	Earth	○	○	○	○	○	○	○	○	○	○
	Others										
F	Type of Drainage										
	Open Ditch (Earth)	R.L									
	Open Ditch (Concrete)										
	U Typed Ditch										
	L Typed Ditch										
	Others Typed Ditch										
	Crossing Drainage										
G	Utility										
	Electricity	R	R								
	Telephone										
	Watersupply										

Road Inventory Survey

Area	Name of Road	From To	Beginning of	End of	Kisumu Road	Length	0.5	Km
	Distance	0						
A	Right of way Width	20	20	20				
B	Number of Lanes	2	2	2				
	Single	5.1	7	7.6	3.6			
	Separate							
C	Shoulder Width							
D	Sidewalk Width							
E	Type of Pavement							
	Asphalt							
	Gravel							
	Earth							
	Others							
F	Type of Drainage							
	Open Ditch (Earth)							
	Open Ditch (Concrete)							
	U Typed Ditch							
	L Typed Ditch							
	Others Typed Ditch							
	Crossing Drainage							
G	Utility							
	Electricity	R	R	R	L			
	Telephone							
	Water supply							
	Distance							
A	Right of way Width							
B	Number of Lanes							
	Single							
	Separate							
C	Shoulder Width							
D	Sidewalk Width							
E	Type of Pavement							
	Asphalt							
	Gravel							
	Earth							
	Others							
F	Type of Drainage							
	Open Ditch (Earth)							
	Open Ditch (Concrete)							
	U Typed Ditch							
	L Typed Ditch							
	Others Typed Ditch							
	Crossing Drainage							
G	Utility							
	Electricity							
	Telephone							
	Water supply							

Road Inventory Survey

Area	Name of Road	Mwanga Road	From To	Beginning of	End of	Kisinyi Road	Length	Km
	Distance		0					
A	Right of way Width	20	20	20	20			
B	Number of Lanes	1	1	1	1			
	Single	5.3	4.7	4.7	6	8		
	Separate							
C	Shoulder Width							
D	Sidewalk Width							
E	Type of Pavement							
	Asphalt							
	Gravel							
	Earth	○	○	○	○	○		
	Others							
F	Type of Drainage							
	Open Ditch (Earth)							
	Open Ditch (Concrete)							
	U Typed Ditch							
	L Typed Ditch							
	Others Typed Ditch							
	Crossing Drainage							
G	Utility							
	Electricity	L						R
	Telephone							
	Watersupply							
	Distance							
A	Right of way Width							
B	Number of Lanes							
	Single							
	Separate							
C	Shoulder Width							
D	Sidewalk Width							
E	Type of Pavement							
	Asphalt							
	Gravel							
	Earth							
	Others							
F	Type of Drainage							
	Open Ditch (Earth)							
	Open Ditch (Concrete)							
	U Typed Ditch							
	L Typed Ditch							
	Others Typed Ditch							
	Crossing Drainage							
G	Utility							
	Electricity							
	Telephone							
	Watersupply							

Road Inventory Survey

Area	Name of Road	Mengo Kisemuyi Road	From To	Beginning of	Mengo Hill Road	End of	Kisemuyi Road	Length	0.7	Km
	Distance		0							
A	Right of way Width	15	15	12.9	14.5	12				
B	Number of Lanes									
	Single	5	7	3	2	5	6	5		
	Separate									
C	Shoulder Width									
D	Sidewalk Width									
E	Type of Pavement									
	Asphalt									
	Gravel									
	Earth									
	Others									
F	Type of Drainage									
	Open Ditch (Earth)									
	Open Ditch (Concrete)									
	U Typed Ditch									
	L Typed Ditch									
	Others Typed Ditch									
	Crossing Drainage									
G	Utility									
	Electricity									
	Telephone									
	Watersupply									
	Distance									
A	Right of way Width									
B	Number of Lanes									
	Single									
	Separate									
C	Shoulder Width									
D	Sidewalk Width									
E	Type of Pavement									
	Asphalt									
	Gravel									
	Earth									
	Others									
F	Type of Drainage									
	Open Ditch (Earth)									
	Open Ditch (Concrete)									
	U Typed Ditch									
	L Typed Ditch									
	Others Typed Ditch									
	Crossing Drainage									
G	Utility									
	Electricity									
	Telephone									
	Watersupply									

Road Inventory Survey

Area	Name of Road	Monebi Road	From To	Beginning of	Lubiri ring Road	End of	Katove Road	Length	0.5	Km
	Distance									
A	Right of way Width	20	20	20	20					
B	Number of Lanes	1	1	1	1					
	Single	5.1	5	4.8	7.5					
	Separate									
C	Shoulder Width									
D	Sidewalk Width									
E	Type of Pavement									
	Asphalt									
	Gravel									
	Earth									
	Others									
F	Type of Drainage									
	Open Ditch (Earth)									
	Open Ditch (Concrete)									
	U Typed Ditch									
	L Typed Ditch									
	Others Typed Ditch									
	Crossing Drainage									
G	Utility									
	Electricity	R	R	R	R					
	Telephone	L	L	L	L					
	Watersupply	R.L	R.L	R.L	R.L					
	Distance									
A	Right of way Width									
B	Number of Lanes									
	Single									
	Separate									
C	Shoulder Width									
D	Sidewalk Width									
E	Type of Pavement									
	Asphalt									
	Gravel									
	Earth									
	Others									
F	Type of Drainage									
	Open Ditch (Earth)									
	Open Ditch (Concrete)									
	U Typed Ditch									
	L Typed Ditch									
	Others Typed Ditch									
	Crossing Drainage									
G	Utility									
	Electricity									
	Telephone									
	Watersupply									

Road Inventory Survey

Area	Name of Road	From To	Beginning of	End of	Queens Way	Length	0.3	Km
	Distance	0						
A	Right of way Width	26.1	23.2	2.0				
B	Number of Lanes	1	1	1				
	Single	6.9	7	5.2				
	Separate							
C	Shoulder Width							
D	Sidewalk Width							
E	Type of Pavement							
	Asphalt							
	Gravel							
	Earth							
	Others							
F	Type of Drainage							
	Open Ditch (Earth)							
	Open Ditch (Concrete)							
	U Typed Ditch							
	L Typed Ditch							
	Others Typed Ditch							
	Crossing Drainage							
G	Utility							
	Electricity	R	R	R				
	Telephone	L						
	Watersupply							
	Distance							
A	Right of way Width							
B	Number of Lanes							
	Single							
	Separate							
C	Shoulder Width							
D	Sidewalk Width							
E	Type of Pavement							
	Asphalt							
	Gravel							
	Earth							
	Others							
F	Type of Drainage							
	Open Ditch (Earth)							
	Open Ditch (Concrete)							
	U Typed Ditch							
	L Typed Ditch							
	Others Typed Ditch							
	Crossing Drainage							
G	Utility							
	Electricity							
	Telephone							
	Watersupply							

Road Inventory Survey

Area	Name of Road	From To	Beginning of	End of	Masaka Road	Length	Km
	Distance	0					
A	Right of way Width	20					
B	Number of Lanes	1					
	Single	5.4					
	Separate						
C	Shoulder Width						
D	Sidewalk Width						
E	Type of Pavement	○					
	Asphalt						
	Gravel						
	Earth						
	Others						
F	Type of Drainage						
	Open Ditch (Earth)						
	Open Ditch (Concrete)						
	U Typed Ditch						
	L Typed Ditch						
	Others Typed Ditch						
	Crossing Drainage						
G	Utility	R					
	Electricity						
	Telephone						
	Watersupply						
	Distance						
A	Right of way Width						
B	Number of Lanes						
	Single						
	Separate						
C	Shoulder Width						
D	Sidewalk Width						
E	Type of Pavement						
	Asphalt						
	Gravel						
	Earth						
	Others						
F	Type of Drainage						
	Open Ditch (Earth)						
	Open Ditch (Concrete)						
	U Typed Ditch						
	L Typed Ditch						
	Others Typed Ditch						
	Crossing Drainage						
G	Utility						
	Electricity						
	Telephone						
	Watersupply						

Road Inventory Survey

Area	Name of Road	Entebe Road			Kibuye Roundabout			Namasuba			Length			Km
		From To	Beginning of	End of	From To	Beginning of	End of	From To	Beginning of	End of	From To	Beginning of	End of	
Distance														
A	Right of way Width	30	30	30	30	30	30	30	30	30	30	30	30	30
B	Number of Lanes	2	2	2	2	2	2	2	2	2	2	2	2	2
	Single	7.5	9.9	9.9	9.6	9.7	9.2	8.7	8.8	8.7	8.8	8.8	8.4	9.4
	Separate													
C	Shoulder Width	RL	RL	RL	R	L	RL	RL	RL	RL	RL	RL	RL	RL
D	Sidewalk Width													
E	Type of Pavement	○	○	○	○	○	○	○	○	○	○	○	○	○
	Asphalt													
	Gravel													
	Earth													
	Others													
F	Type of Drainage													
	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
G	Utility													
	Electricity	R	R	R	R	R	R	RL	R	R	R	R	R	R
	Telephone	L	L	L	L	L	L	R	L	L	L	L	L	L
	Watersupply													
Distance														
A	Right of way Width													
B	Number of Lanes													
	Single													
	Separate													
C	Shoulder Width													
D	Sidewalk Width													
E	Type of Pavement													
	Asphalt													
	Gravel													
	Earth													
	Others													
F	Type of Drainage													
	Open Ditch (Earth)													
	Open Ditch (Concrete)													
	U Typed Ditch													
	L Typed Ditch													
	Others Typed Ditch													
	Crossing Drainage													
G	Utility													
	Electricity													
	Telephone													
	Watersupply													

Road Inventory Survey

Area	Name of Road		Ring Road		From To		Beginning of		Lubir ring Road		End of		Lubir ring Road		Length		Km
	0	30	0.5	1Km	1.5	2Km	2.5	3Km	3.5	4Km	4.5	5Km	5.5	6Km	6Km	6Km	
A	Distance	30	30	30	30	30	20	20	20	18.8	20	15.7	20	17.8			
	Right of way Width	2	2	4	2	2	2	2	2	2	2	2	2	2			
	Number of Lanes	7.4	6.2	8	6.2	6.2	6.4	6	6	6.8	7.2	7	7.2	6.6			
	Single																
	Separate			16.1		12.9											
B	Shoulder Width	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL			
	Sidewalk Width																
	Type of Pavement																
	Asphalt																
	Gravel																
C	Earth																
	Others																
	Type of Drainage																
	Open Ditch (Earth)																
	Open Ditch (Concrete)	R											R				
D	U Typed Ditch																
	L Typed Ditch																
	Others Typed Ditch																
	Crossing Drainage																
	Utility																
E	Electricity	L	L		L	L	L	L	L	L	L	L	L	L			
	Telephone	L	L		L	L	L	L	L	L	L	L	L	L			
	Watersupply																
	Asphalt																
	Gravel																
F	Earth																
	Others																
	Type of Drainage																
	Open Ditch (Earth)																
	Open Ditch (Concrete)																
G	U Typed Ditch																
	L Typed Ditch																
	Others Typed Ditch																
	Crossing Drainage																
	Utility																
A	Distance	20	22.8	20	16.5	20	23.1	20	20	20	20	28.3	20	28.7	20	30	
	Right of way Width	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	
	Number of Lanes	6.6	6.6	6.2	7.2	6.8	7.2	7	7	7	7	12.3	13.3	13.2	12.6	13.5	
	Single																
	Separate																
B	Shoulder Width	L	RL	RL	RL	L	RL	R	RL	RL	RL	RL	RL	RL	RL	RL	
	Sidewalk Width																
	Type of Pavement																
	Asphalt																
	Gravel																
C	Earth																
	Others																
	Type of Drainage																
	Open Ditch (Earth)																
	Open Ditch (Concrete)																
D	U Typed Ditch																
	L Typed Ditch																
	Others Typed Ditch																
	Crossing Drainage																
	Utility																
E	Electricity	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
	Telephone	R	R	L	R	R	R	R	R	R	R	R	R	R	R	R	
	Watersupply																
	Asphalt																
	Gravel																
F	Earth																
	Others																
	Type of Drainage																
	Open Ditch (Earth)																
	Open Ditch (Concrete)																
G	U Typed Ditch																
	L Typed Ditch																
	Others Typed Ditch																
	Crossing Drainage																
	Utility																

Road Inventory Survey

Area	Name of Road		Ring Road		From To		Beginning of		Lubiri ring Road		End of		Lubiri ring Road		Length		11.5		Km		
	6Km	30	30	4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
A	Distance																				
	Right of way Width	30	30	4	4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
B	Number of Lanes	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Single																				
C	Separate	13.6	13.6	13	13	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
	Shoulder Width																				
D	Sidewalk Width	L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L
	Type of Pavement																				
E	Asphalt	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Gravel																				
F	Earth																				
	Others																				
F	Type of Drainage																				
	Open Ditch (Earth)																				
G	Open Ditch (Concrete)																				
	U Typed Ditch																				
G	L Typed Ditch																				
	Others Typed Ditch																				
G	Crossing Drainage																				
	Utility	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
G	Electricity	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	Telephone																				
G	Watersupply																				
	Distance	9Km	30	30	2	2	6.4	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
A	Right of way Width																				
	Number of Lanes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
B	Single																				
	Separate																				
C	Shoulder Width	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L	R.L
	Sidewalk Width																				
D	Type of Pavement																				
	Asphalt	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
E	Gravel																				
	Earth																				
F	Others																				
	Type of Drainage																				
F	Open Ditch (Earth)	L																			
	Open Ditch (Concrete)	R																			
G	U Typed Ditch																				
	L Typed Ditch																				
G	Others Typed Ditch																				
	Crossing Drainage																				
G	Utility	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
	Electricity																				
G	Telephone																				
	Watersupply																				