## 4. Field Survey Data in Rural Areas

JICA Master Plan Study

		· .	Date :	
Name of	Area	·	)	
Geograp	hical Condition	າຮ		· .
(1) Si	ze of Area			
· .		· · · (	sq. Km)	
(2) Ge	eography	:		
1	Mountain Hilly Flat	(	ጽ ) ጽ ) ጽ )	

Questionnaire to Local Governments (District) (Regional data)

Population of the area

1.

2.

з.

(1) Labour Population

a) Sector by Sector

Name of Sector	Pop.('000)
<ol> <li>Agriculture (with peasant)</li> <li>Industry</li> <li>Tourism</li> <li>Others</li> </ol>	

(2) Growth rate (91/92)

a) Economic growth rate ( p.a.)

b) Popuration growth rate ( p.a.)

4. Main Products

	Assortment
1st	
2nd	
3rd	
4th	

5. Regional development Plan

Number of Social Facilities that related to this office (1/2)

.9

No.	Item	The I	number of each it	item (County by Co	County)
r-t	Government offices				
2	Police station				
3	Hospital				
4	Health unit				
5	Hotel				
6	Large Lodge				
7	Secondary school				
8	High Secondary school				
6	College / University				
10	Theater				
11	Bank				
12	Factory (Large scale)				
13	Store (Large scale)				
14	Filling Station				
12	Other Public installations				

No.     Item     The number of each item (county by county)       1     Government offices     1     Government offices       2     Police station     3     Hospital       3     Hospital     1     1       4     Health unit     1     1       5     Hotel     1     1       6     Large Lodge     1     1       7     Secondary school     1     1       9     College / University     1     1       10     Theater     1     1       11     Bank     1     1       12     Factory (Large scale)     1     1       13     Store (Large scale)     1     1       14     Filling Station     1     1								·Г
1Government offic2Police station2Police station3Hospital4Health unit5Hotel6Large Lodge7Secondary school7Secondary school8High Secondary school9College / Univer10Theater11Bank12Factory (Large13Store (Large14Filling Station15Other		No.	Item	Ther	of	μŲ	ounty)	
Government officPolice stationHospitalHospitalHealth unitHotelLarge LodgeSecondary schoolHigh Secondary sCollege / UniverTheaterBankFactory (LargeStoreStoreFilling StationOtherPublic installat								
Police stationHospitalHospitalHealth unitHotelLarge LodgeSecondary schoolHigh Secondary sCollege / UniverTheaterTheaterBankFactory (LargeStoreStoreFilling StationOtherPublic installat		-1	Government offices					
HospitalHealth unitHotelHotelLarge LodgeSecondary schoolHigh Secondary sCollege / UniverTheaterPankBankFactory (LargeStore (LargeStore (LargeFilling StationOtherPublic installat		3						
Health unitHotelHotelLarge LodgeSecondary schoolSecondary schoolHigh Secondary sCollege / UniverCollege / UniverBankBankStore (LargeStore (LargeFilling StationOtherPublic installat		<b>m</b>	Hospital					1
HotelLarge LodgeSecondary schoolHigh Secondary sCollege / UniverTheaterBankBankFactory (LargeStore (LargeFilling StationOtherPublic installat								
Large LodgeSecondary schoolHigh Secondary sCollege / UniverTheaterTheaterBankFactory (LargeStoreStoreFilling StationOtherPublic installat		S	Hotel					
Secondary schoolHigh Secondary sCollege / UniverTheaterTheaterBankBankFactory (LargeStore (LargeStore (LargeFilling StationOtherPublic installat		9						
High Secondary sCollege / UniverTheaterTheaterBankBankFactory (LargeStore (LargeStore (LargeFilling StationOtherPublic installat		- L						
College / UniverTheaterTheaterBankBankFactory (LargeStore (LargeStore (LargeFilling StationOtherPublic installat	- 1		Secondary					
Theater Bank Factory (Large Store (Large Filling Station Other Public installat		6	College / University					
BankFactory(LargeStore(LargeFillingStationOtherOtherPublicinstallat		10	Theater		-			
Factory (Large Store (Large Filling Station Other Public installat	. –	11	Bank					
Store(LargeFilling StationOtherPublic installat		12	(Large					
Filling Other Public		13	(Large					
Other Public		14						
		12 1						<u></u>

# 7. Communication method between and among offices of National/Regional Administration

4-4

(1) From/to Ministry

1st (	- * -
2nd ( 3rd (	· .
STA (	

(2) From/to County

1st ( 2nd ( 3rd (

Thank you for your cooperaation !

Table 4-1 Telephone Demand at Sample District

Name of Regions	CENTRAL.	EASTERN	· .	NORTHEN			WESTERN	
	-							
Name of Districts	MPIGI	FOROS	AFUA	MOROTO	OCILIX	RUKUNGIRI	KABAROLE	KSCHO
Category of Sample Areas	A1	8	m	o	1	٥	ω	1
Number of County & Municipality	9	0	£	9	E	B	, <b>7</b> .	F.
Population	960,131	452,179	670,238	183,246	205,929	410,563	784,607	196.132
Urban Population	144,068	48,616	28,065	13,638	10,193	13.642	38,825	7,864
Urbanization Rate (%)	15.01	10.75	4.19	7.44	4.95	3.32	4,95	4.01
Geographical Conditions								
Size of Area (sq. Km)	6,222	10,060	7,830	14,113	13,208	2,753	8,361	662
Mountain	X (15%)	X (8%)	X (13 %)	X ( 5%)		X (10%)	X (30%)	X ( 50 %)
Hilly-	X (75%)	i	1	X (15%)	X ( 10 %)	X (50%)	(%,09)X	X (40%)
E E	(%-0,⊔)X (10,%)	X (83%)	X (87%)	(%08)X	(%.03)X	. (%, сн-) Х	X (10 %)	(%,01,)X
Government Offices	.V/N	22	68	47	Œ	23	N/A	14
Post Office	14	9	8	1	4	S	7	8
Police Station	<b>5</b> 8	¢۵	¢	7	S	-	25	ţ.
Hers pital	57	3	2	2	2	8	3	1
Health Unit	(Included: Hospital)	S .	SS	13	ં જ	61	ន	7
Social Hotel	-		+	1 - 1	t	2	ŝ	2
Facilities Lodge	N/A	19	-	2	6	11	39	1
Secondary School	49	16	42	3	6	. 24	8	ω.
High Secondary School	15	2	12	-	4	8	17	N
College / University	N/A	-	3	F.	-	10	1	+
Theater	10	. 2		I	3	ł	35	1
Bank	13	2	2	-	Ļ	5	6	F
Other Public instellations	5	'	25	I	10.	-	ł	I
Inductries / Companies Large Scale	N/A	5	Ð	ł	ŀ	n	52	1
Shops Large Scale	N/A	ß	4	ŀ	ç	9	32	ì
Filing Station	N/A	8	6	8	-	ø	11	Ŧ
Main Industries or Products								
151	Agriculture	Cotton	Tabacco	Livestock	Cattle	Livestock	Tee	kish Poteboot
pus	Faming	Millet	Maize	Sorgham	Sorghum	Cottee	Meize	Sorghum
3rd	Timber	Sorghum	Rice	Meize	Malze	Tebecco	Beers / Ground Nuts	Bears
Communication Method of District Administration Office		; ;						·
From / to Ministry Administration Office	A/N	Telephone / Vehicle	Post Office / messenger	Vehicle / Telephone	Vehicle/Post Office	Vehicle / Telephone	Telephone/Post Office	Telephone / EMS
From / to County Administration Offloss	NYA	Vehicle / Bicycle	Masenger	Vahicle /Radio Calls	Vehicle/Post Office	Vahide	Post Office / Vehicle	Massanger

#### <u>Questionnaire to Local Governments (County Office)</u> (Regional data)

				Date :
÷	of Area	Conditions	(	<b>)</b>
-	Size of			
			ан <b>(</b> а	sq. Km)
(2)	Geograpl	hy		
.*	1	Mountain Hilly Flat		୫) ୫) ୫)

#### 3. Population of the area

(1) Labour Population

a) Sector by Sector

Name of Sector	Pop.('000)
<ol> <li>Agriculture (with peasant)</li> <li>Industry</li> <li>Tourism</li> <li>Others</li> </ol>	

#### (2) Growth rate (91/92)

a) Economic growth rate ( p.a.)

b) Popuration growth rate ( p.a.)

4. Main Products

	A	ssortm	ent	
1st 2nd 3rd		· · · ·	: . :	
3rd 4th		· .		

5.

1.

2.

Regional development Plan

The number of each item (Sub county by Sub county) Number of Social Facilities that related to this office (1/2) (Large scale) (Large scale) High Secondary school Other Public installations College / University Government offices Secondary school Filling Station Police station Item Large Lodge Health unit Hospital Factory Theater Store Hotel Bank No. 10 Э Т2 r-i 2 ന 4 ഹ ശ 5ω თ 11 12 13 \$ |-. و

6. Number of Social Facilities that related to this office (2/2)

No.	Item	The number of	each item (Sub	county by Sub	county)
1	Government offices				
7	Police station				
е Г	Hospital				
4	Health unit				
ى ا	Hotel				
9	Large Lodge				
4	Secondary school				
œ	High Secondary school				
<u>6</u>	College / University				
10	Theater				
11	Bank				
12	Factory (Large scale)				
Э. Э.Э.	Store (Large scale)				
14	Filling Station				
15	Other Public installations				

4-8<sup>:</sup>

7. Communication method between and among offices of Regional/Local Administration

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(1) From/to Regional (District Office)

1st	(	
2nd	Ì	
3rd	Ì	

(2) From/to Sub-County

1st ( 2nd ( 3rd (

Thank you for your cooperation !

EXISTING POST OFFICE / EXISTING TELECOM, FACILITIES EXISTING TELECOM, FACILITIES BUT DAMAGED NO POST OFFICE / NO TELECOM. FACILITY Category : A1 ESTIMATED DATA BY STUDY TEAM AGENCY POST OFFICE Telephone Demand at Sample County (1/13) County : Butambala (X Pop. 77.811) € £ × ŧ NOTE Ngendo 14,170 ø c 2 (\*) I. I 0.15 ω 2 1 1 I 21,429 Kbibi 3.073 14,34 (Y) S3 0.25 Coffee / Banana / Cossava / Poteboo ×× æ ė ŝ ₽ 8 ł Ń ø œ ŝ e ŝ Post Office / Travel (Vehicles) Post Office / Trevel (Vehicles) Kelemba 18,045 (¥) District : Mpigi хI 4 0.24 s ~ ı. ო Ø Ň 2 ~ ŝ 600,000 Uganda Shs Table 4-2 14,250 0 3 (\*) 3 Bub 8 0.24 ×× 2 I ~ ١r. ø Communication Method of County Administration Office Budde ... 0 9,908 () N 1.1 0.27 4 ø 1 N ę 52 Į φ T -ഗ From / to Sub - County Administration Offloss From / to District Administration Office 3. Indus./ Compen./ Shope Demand Density per 100 population (%) 2. Social Facilities / Others High Secondary School Indusities / Companies Large Scale Region : Central Urban Population (Kolbi, Gombe) Average Annual Income per Person Secondary School College / University Telephone Office 4. Residents (\*) Filling Station Police Station Large Scale Medium Scele Large Lodge 1. Govt. Office Post office Heelth Unit Post Office Total Telephone Demand Main Products of County Name, of Sub - County Other Public installations Hos pital Urbanization Rate (%) Theater Hotel 3 ank Goverment Offices Number of Parish Telephone -Population Demand Felecom. Fec:||tites Fecilities Social Shops

EXISTING POST OFFICE / EXISTING TELECOM. FACILITIES EXISTING TELECOM. FACILITES BUT DAMAGED NO POST OFFICE / NO TELECOM. FACILITY Category : A1 ESTIMATED DATA BY STUDY TEAM Mpigi Town 100.00 Souncil 7,652 7,652 0.55 AGENCY POST OFFICE 4 22 ĸх ÷ ÷ ŝ 25 4 ---**\***\*\* 1 •• I Ł ł n Telephone Demand at Sample County (2/13) 12 (\*) Kingente 10,584 0 0.26 1 1 ų 9 53 ı ł ŋ t County : Mawokota Pop. 105,335) (A) ŝ £ NOTE : -× (\*) 6 o Noigi 23,034 0 3 8 1 1 ı 2 2 ŝ ŝ ი ଷ ខ្ល ~ ¢ e Buwama 2,406 32,929 7.31 £ 0.16 ×× ç ន ő 2 g e æ N 14 ( " ) 25,336 o 0 Nkozi Coffee . Sweet Potetoes , Fising , Timber 0.20 ιı ę ίσ N e, 5 Travel (Vahicles) / Post office (້) ອ Mucuma 0 0 20,029 District : Mpigi 1.1 0.13 E N 'n £ 5 N 180,000 Uganda Shs Travel (Vehiclos) (\*) 2 Krumu 17,723 o o Table 4-3 1 1 0.14 Ξ 54 ò ÷ 1 -I 2 -1 I Communication Method of County Administration Office (\*) e Kamengo 28,048 0 þ From / to Sub - County Administration Offices : 1 ( A) 1 0.15 ×ī E 4 t ¢ ı. N ę ۵ æ ŝ ÷ t 1 ł e N s 8 From / to District Adminstration Office Demand Density per 100 population (%) 3. Indus, / Compan. / Shops utean Population (Mojgi T.C. , Buwama) 2. Social Facilities / Others High Secondary School Indusities / Companies Large Scale Other Public installations Region : Central Average Annual Income per Person College / University Secondary School Telephone Office 4. Residents (\*) Medium Scale Police Station Filing Station Large Lodge 1. Govi. Office Large Scale Main Products of County Post Office Post office Health Chit Tatel Telephone Demend Name of Sub - County Hos pital Urbenization Rate (%) Theater ₽ Totor ž Goverment Offices Number of Parsh Teicphone Population Demand Facilities Telecom, Facilities Social Shops

Table 4-4Telephone Demand at Sample County (3/13)District : SorotiCounty : KaberamaidoCategory

Region : Eastern

County : Kaberamaido Category : A2

					• •	(Pop. 42,110)		• : • :		
Name of Sub - County	Alwa	Kabe amaico	Kobutubulu	Ochero						
							•	• •		
Telecom. Post Office	1	×	1	I.						
Facilities Telephone Office	1	(X)	1	1		. :				
Number of Parish	e	2	4	0						
Population	10,159	14,065	8,174	9,712						
Urban Population (Kabaramaido T.B. )	0	1,903	0	•			: 1	-		:
Urbanization Rate (%)	<b>0</b>	13.53	0	0						
Covernent Offices	4	Ø	~	so.						
Post office			1	-						
Police Station								-		
Hospital			- - - - - - - -	1						
Health Unit	•	4	-							
Social Hotei		-	_ <b>1</b>	1 1			:			
Facilities Large Lodge	-	2	-							
Secondary School	· · · · · · · · · · · · · · · · · · ·	-	1	· •						
High Secondary School				1						
College / University			-	1				1. 1. 1.		
Theater		2		1			-			- - - -
, Alan Carlor Alan Alan Alan Alan Alan Alan Alan Alan		•		1						
Other Public installations	1	S	1		-					
Indus * les / Companies Large Scale	ale. –	1	t		:				:	
Large Scale	- - - - - -	4	3	27			- - -			
Shops Medum Scale	(*) (*)	5	3 (*)	5 (*)						
Filing Station	1	1	I	1						
Telephone 1. Gov. Office	4	Ø	. 7	: . S				:		
Demand 2. Social Facilities / Others	hers -	ţ5	4	<i>ი</i> ,			:			
3. Indus. / Compan. / Shop	70 ps	0	ø	~						
4. Residents (*)	9	20	10	6						
Total Telephone Demond	16 16	z	27	24						
Demand Density per 100 population (%)	(%) 0.16	0.38	0.33	0.25			1			
Communication Method of County Administration Office	Administration Office					NOTE : -	NO POST OFF	TOE / NO TELE	NO POST OFFICE / NO TELECOM. FACILITY	
From / to District Administration Office	Office :	Travel (Vehicles	Travel (Vehicles) / Post Office		:	×	EXISTING POS	T. OFFICE / EX	EXISTING POST . OFFICE / EXISTING TELECOM. FACILITIES	M FACILITIES
From / to Sub - County Administration	ration Offices :	Masengers				( <b>x</b> )	EXISTING TELL	ECOM FACILIT	EXISTING TELECOM FACILITIES BUT DAMAGED	EO
Main Products of County		Simstim / Milet / Sorghum	1	Beens	:	(A).	AGENCY POST OFFICE	T CFFICE	: .	
Average Annual Income per Person		40.000 Uganda	Shs			•)	ESTIMATED D	ESTIMATED DATA BY STUDY TEAM	N TEAM	

 Table 4-5
 Telephone Demand at Sample County (4/13)

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negion : mastern	_	Uistret : Soroti	Soroti		County : Serere	Serere		Category A2	- A2	
						(Pop. 63,809)				
Name of Sub - County	Serere / Olio	Kyere	Kateta	Atira	-					
Telecom. Post Office	×		1	1						
	×	1	I	I						
Number of Parch	50	ŝ	4	¢						
Population	15,957	19,130	22,563	6,159						
Urban Population	•		<b>0</b>	0						
Urbanization Rate (%)	ö	o	<b>0</b>	Q			:			
Goverment Ottices	10	Ð	83	8						
Post office	(A)	ı	.1							
Police Station	+	-		1						
Hos pitel	: 1	1		1						
Heath Unit	+	e	-	•						
Social Hotel	1	1		•	-			:		
Facilities Large Lodge	1	r	1	ļ						
Secondary School	6	-	<u>,</u> 1	1						
High Secondary School	1	1	1	1						
College / University	-1	1	1	1						
Theater	•		÷	۲						
Bank	1	1	1	E						
Other Public installations	•	1	1	. •	_					
Industries / Companies Large Scale	1	-	1	ł				-		
Large Scale	6	۲	1	1						
Shops Medium Scale	12	3 (*)	2 (*)	3 (*)						
Filling Station		•	1	B						
Telephone 1. Govt. Office	¢.	8	Ð	<b>6</b> 2						
Demand 2. Social Facilities / Others	~	7	~	- 64						
3. Indus. / Compan. / Shops	15	4	¢1	ო						
4. Residents (*)	8	÷	7	8						
Total Telephone Demand	ŝ	S	61	21						
Demand Density per 100 population (%)	0.33	0,16	0.06	0.34				-		
Communication Method of County Administration office	inistration - office					NOTE: 1	NO POST ON	NO POST OFFICE / NO TELECOM. FACILITY	COM. FACIUTY	
From / to District Administration Office	 00	Massengers /	Travel (Vehicles)	÷		×	EXISTING POS	st office / ex	EXISTING POST OFFICE / EXISTING TELECOM. FACILITIES	I. FACIUTIES
From / to Sub - County Administration	n Offices :	Massengars /	Travel (Foot)			(x)	EXISTING TEU	ECON, FACILT	EXISTING TELECOM, FACILITIES BUT DAMAGED	9
Main Products of County		Cotton / Millet	& Sorghum /	Simsim / Pot	/ Poteto & Cassave	(¥)	AGENCY POST OFFICE	T OFFICE		
Average Annual Income per Person		160,000 Ugano	160,000 Uganda Shs (Farmer)	2		£	ES TIMATED	ESTIMATED DATA BY STUDY TEAM	Y TEAM	

	· · · · · ·		r 							
Region : Eastern		District	Soroti		County : Usuk	Usuk (Pon 79053)		Category :	A2	
Neme of Sub - County	Kettakwi	ราว	Ngarlam	Kapujan	Toroma	Magoro				:
Telecom. Post Office	×	1	1	1	×	I				
Facilities Teischone Office	(X)	1	I	1	1	I				
Number of Parsh	8	6	- 9 -	0	Ð	4				
Population	23,326	17,939	9,130	6,964	12,729	9,065				
Urban Population ( Katekwi T.B. )	3,670	0	0	0	ο	0				•
Urbantzation Rate (%)	15.73	0	o	0	0	0				
Goverment Offices	44	8	50	ΰ	6	9				
Post office	Ļ	1	1	f	1 ( A )	1				
Police Station	÷	n			-	-				
Hos pitel	1	•	1	ŀ	:	1				
Health Unit	~	e	-	(1)	~	-				
Social Hotel	N	1	1		1					
Fecilities Large Lodge	-	1	ł	- - -	1					
Secondary School	-	1	I	1	-				-	
High Secondary School	1	1	-	·	1	1				1
Coilege / University		ł	1	1	۱					
Theeter	1			1		1				
Bank	(1)		1		ſ	1				
Other Public Instellations	• 1	-	-	J	t	1				- -
Industies / Companies Large Scale	i. A	1	Ì			1				
Large Scale	2	3	۰.	F	÷	2				
Shops Medium Scale	10	(*)	3 (+)	3 (*)	8 (*)	. 5(*)				
Faling Station	(1)	1	1	ŀ		1				
Telephone 1. Govt. Office	-11	50 1	5	<b>\$</b>	80	9				
Demand 2. Social Facilities / Others	თ	2	Q		w	N				
3. Indus. / Compan. / Shops		Ð	4	भ	- 10	7	•			
4. Residents (*)	8	13	7	7	13	0				
Total Telephone. Demand	62	R	19	18	34	24				
Demand Density per 100 population (%)	0.27	0.19	0.21	0.26	0.27	0.26				
Communication Method of County Administration Office	nistation Office					NOTE : -	NO POST O	NO POST OFFICE / NO TELECOM. FACILITY	OM. FACILITY	
From / to District Administration Office		Travel (Vehick	Travel (Vehicles) / Post Office / Messengers	te / Messenger	Ċ,	×	EXISTING PC	EXISTING POST OFFICE / EXISTING TELECOM. FACILITIES	TING TELEOC	M. FACILITIES
From / to Sub - County Administration	n Offices	Messengers /	Mesengers / Travei ( Vehicles )	/ Treve	_	(x)	EXISTING TE	EXISTING TELECOM. FACILITIES BUT DAMAGED	BUT DAMAG	ED.
Main Products of County		Cotton / Milk	Cotton / Millet & Sorghum / Simsim /	Simsim / Poteto	to & Cesseva	(¥)	AGENCY POST OFFICE	IST OFFICE		
								,		

EXISTING POST OFFICE / EXISTING TELECOM. FACILITIES (X) EXISTING TELECOM FACILITES BUT DAMAGED
 (A) AGENCY POST OFFICE
 (\*) ESTIMATED DATA BY STUDY TEAM NO POST OFFICE / NO TELECOM. FACILITY Category : B Table 4-7Telephone Demand at Sample County (6/13) Pop. 65,493) NOTE : --× County : Koboko Tobacco / Cassava / Bears / Sorghum Massengas / Radio Announcement (\*) e o Lobula 18,987 o 0.07 ł 1 e. မ ł i F I. 1 District : Arua 72,000 Uganda Shs 4 (\* ludara Mæsengers 22,721 o ł I ę 0.07 T i -I ~ ~ 1 -L ı N v. Communication Method of County Administration Office 23,785 ••• 4,723 Midia 19,86 0,58 58 8 From / to Sub - County Administration Offices : ଷ ₽ ×× N 8 ß ÷ თ ī ¢, ļ ñ 8 ន ł N ŝ ~ From / to District Administration Office Demand Density per 100 population (%) 3: Indus. / Compan. / Shops Region : Northern Urban Population (Koboko T.B. / Midia) 2. Social Facilities / Others High Secondary School Indus tiles / Companies Large Scale Average Annual Income per Person Secondary School College /- University Telephone Office Filing Station 4. Recidents (\*) Large Scale Medium Scale Police Station Large Lodge 1. Govt. Office Health Unit Post. office Total Telephone Demand Main Products of County Post Office Hos pital Name of Sub - County Other Public installations Urbanization Rate (%) Theater Hotel Д Хор Х Government Offices Number of Parsh Telephone Population Facilities Demand Telecom. F accilities Social Shops

Table 4-8Telephone Demand at Sample County (7/13)

Bedion . Northem		District . Aris						Ċ		
			אורש		county :	(Pop. 74.307)		caregory :	۵ 	
Name of Sub - County	qiqqo	Offaka	0 Solic O	Rhino Camp	Rigt					1
Telecom. Post Office	×	1	1	×	1					
Facilities Telephona Office	1 1	I	1	1	- 1					
Number of Parish	4	4	0	4	8					
Population	14,767	121,41	10,871	18,427	16.031				-	
Urben Population	0	0	<b>o</b>	0	0				·	-
Urbanization Rate (%)	0	0	<b>0</b> 	o	<b>0</b> :		:		:	
Government Offices	g	4	9	6	Ð					
Post office	, <b>† ( A</b> ) .	.1	1	1 (.A)	: :			1		
Police Station	1	I	I I	-	1					
Hos pital		j,	1	1	1					
Health Unit	5	1	4	Ŧ		ъ.				
Social Hotal	1		6	i i i	E					
Facilities Large Lodge				1	1					
Secondary School	8	-	1	-	1					
High Secondary School			I.							
College / University	-		-		  				-	
Theeter	-	-	ţ	I	- - - -					
Bank	1	-	1	Ŧ	ł					
Other Public installations		1	Ĺ	8	2				×	
Industries / Companies Large Scale		1	. <b>.</b>	-	-					
Large Scale	. 1	2	1	2	2				:	
Shops Medium Scale	4	5 (*)	3 (*)	6	5 (*)		-			
Filing Station	1	1	1	1	-					
Telephone 1. Govt. Office	9	4	S	ŝ	ω	:				
Demand 2. Social Facilities / Others	7	<b>69</b>	S	80	CI					
3. Indus. / Compan. / Shops	<b>10</b> .		4	80 1	. 7					
4. Residents ( * )	11	8	ø	: 5	10					
Total Telephone Damand	8	8	ន	35	27					
Demand Density per 100 population (%)	0.20	0.16	0.20	0.19	0.17					
Communication Method of County Administration Office	istetion Office			•••		NOTE :	NO POST OF	· NO POST OFFICE / NO TELECOM FACILITY	COM. FACILITY	
From / to District Administration Office		Messengers /	/ Travel (Bicycle)		:	×	EXISTING POS	EXISTING POST OFFICE / EXISTING TELECOM. FACILITES	STING TELECON	M. FACILITES
From / to Sub - County Administration Offices	Offices :	Mæsengars /	Travel (Bicycle)			(x)	EXISTING TEL	EXISTING TELECOM. FACUTIES BUT DAMAGED	S BUT DAMAG	8
Main Products of County		Cotton / Sime	Cotton / Simsim / Tobecco	/ Baars		(¥)	AGENCY POST OFFICE	T OFFICE	:	
Avarage Annual Income per Pason	•	72,000 Uganda She	She			(*)	ESTIMATED D	ESTIMATED DATA BY STUDY TEAM	TEAM	

Heglon : Nortem         District : Morico         County : Existent         Category : C           New et 8a - Curry         Nortem         Norte         Nort         Norte         Nort         Norte         <		Tat	Table 4-9	Telepho	ne Dem	and at S	Telephone Demand at Sample County (8/13)	ounty (8	(13)	· ·	
Interface         Tendential         Tendential <thtendential< th="">         Tendential         Tendettial         Tendettial         Tendettial         Tendettial         Tendettial         Tendettial         Tendettia</thtendential<>	Region : Nortern		District :	Moroto	÷		Bokora		Category		
of Sub - County Neglerier Meeny lei Lopei Leone Leone Leone							(Pop. 39,529)				
n.         Fest Office         - <t< th=""><th>Name of Sub - County</th><th>Ngoleriet</th><th>Matany</th><th>т Ц ц</th><th>Lopel</th><th>Lotome</th><th>Loka pa</th><th></th><th></th><th></th><th>s</th></t<>	Name of Sub - County	Ngoleriet	Matany	т Ц ц	Lopel	Lotome	Loka pa				s
m         Taleptone Ofice         —         T <tht< th=""> <tht< th=""> <tht< th=""> <t< th=""><th></th><th>I</th><th>1</th><th>1</th><th>1</th><th>1</th><th>1</th><th></th><th></th><th></th><th></th></t<></tht<></tht<></tht<>		I	1	1	1	1	1				
circle Preth         S <t< th=""><th></th><th>I</th><th>1</th><th>I</th><th>I</th><th>1</th><th>I</th><th></th><th></th><th></th><th></th></t<>		I	1	I	I	1	I				
End         8218         10560         6,114         3,137         5,841         5,722           Pputation         0	Number of Parish	v	s	6	ę	4	4				
Pputation         0	Population	8,218	10,560	6.114	3, 137	5,841	5,722	-			:
Billion Rate (%)         0	Urban Population	0	o	0	0	0	0				
ref         Office         2         3         2         1         2         2         2         2         2         2         1           Police Station         1         -         -         1         -	Urbanization Rate (%)	0	ò	. <b>o</b>	0	0	0				
Peat offce         -	Goverment Ottices	2	3	2		N	2		-	-	
Peliee Station         1         -         1         -	Post office	ł	-	1	1	i	. 1			:	
Heap full         -         1         -         1         -	Police Station	-		•	1 .	1	ł		:		ļ
Health         Large Lodge         2         -         2         -         1         -	Hospital	I	4	1	•	-	B			-	
Hold         -	Health Unit	2	-	2	-	-	1				
00     1     -     -     -     -     -     -       00     1     -     -     -     -     -     -     -       01     1     -     -     -     -     -     -     -       1     1     1     1     1     -     -     -     -     -       1     1     1     1     -     -     -     -     -     -       1     1     1     1     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -	1	1	1	1	ł	1	: F				
1     -     -     -     -     -       00     1     -     -     -     -     -       1     1     1     1     -     -     -     -       1     1     1     1     1     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -       1     - </th <th></th> <th>1</th> <th>- 1</th> <th></th> <th>I</th> <th>, I ,</th> <th>I</th> <th></th> <th></th> <th></th> <th></th>		1	- 1		I	, I ,	I				
xxii         1	Secondary School	-	-	+		i i	1				
1       1	High Secondary School	-	-	-	1	Ŀ	1				
-     -     -     -     -     -     -       -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     - <t< th=""><th>College / University</th><th>۲.</th><th>•</th><th>1</th><th>1</th><th>-</th><th>ï</th><th></th><th></th><th></th><th></th></t<>	College / University	۲.	•	1	1	-	ï				
-     -     -     -     -     -     -       1e     -     -     -     -     -     -     -       1e     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -<	Theater	, <b>1</b>	-	· ı	. 1	L	i				
ie     4     3     3     1     3     1       ie     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -     -       i     -     -     -     -     -     -     -	Bank	1		-	1	1	1				
Ie         -	Other Public installations	\$	3	3 G	•	e					
-     -     -     -     -     -     -       -     -     3(*)     2     -     4(*)     -       1     -     -     -     -     -     -       1     -     -     -     -     -     -       2     2     2     1     2     2     2       2     3     2     1     2     2     1       2     1     3     2     0     4     0       8     7     7     2     7     2     2       2     18     18     5     16     5     0       4dministration Office     0.17     0.28     0.16     0.31     0.09       4dministration Office     Travel (Vehicles) / Travel (Bibole) / Recio Call (Phorate)     X     X       4etion Offices     Travel (Bibole) / Travel (Foot) / Travel (Foot) / Travel (Yenices)     X     X       1     100000 Uganda Shs     100000 Uganda Shs     (*)		1	I	1	I	1	1				
-     3 (*)     2     -     4 (*)     -       1     -     -     -     -     -     -       2     2     3     2     1     2     2       2     3     2     1     2     2     2       2     1     2     2     7     2     2       2     1     3     2     0     4     0       2     1     3     2     0     4     0       2     1     3     2     0     4     0       2     1     3     2     0     4     0       3     2     1     3     2     0     4     0       4     0     5     16     5     16     5       5     0.17     0.26     0.16     0.31     0.09       6     0.17     0.29     0.16     0.31     0.09       6     1     5     16     5     1       6     0.26     0.17     0.29     0.16     0.31     0.09       6     0.26     0.17     0.29     0.16     0.31     0.09       6     1     1     1     1     1<	Large Scale	T	-	1		I					
1         -	1 1		3 (*)	2	t	4 (*)	•				
2         3         2         1         2         2         2         2         2         2         2         2         2         2         2         2         1         3         2         2         1         2         2         2         2         2         2         1         3         2         1         2         2         1         3         2         1         3         2         1         3         2         1         3         2         1         3         2         1         3         2         1         3         2         1         3         2         1         3         2         1         3         2         1         3         2         1         3         3         3         1         3         3         2         1         3		-	I	,	1	1	ŀ				
ics         i0         5         7         2         5         1           ops         1         3         2         0         4         0         4         0           g         7         7         2         7         2         7         2         7         2         2         0         4         0         0           g         1         13         18         5         16         0.31         0.039         0.059         0.056         0.015         0.009         0.009         0.005         0.016	÷	0	0	~	•	N	~		:		
Cope         1         3         2         0         4         0           8         7         7         2         7         2         7         2           21         18         18         5         16         5         2         2         2           44         0.26         0.17         0.29         0.16         0.31         0.09           44         0.25         0.17         0.29         0.16         0.31         0.09           4         0.26         0.17         0.29         0.16         0.31         0.09           4         0.26         0.16         0.76         0.31         0.09         0.06           4         1         0.29         0.16         0.31         0.09         0.09           4         1         0.26         0.16         1. Tavel (Expelo) / Tavel (Expelo) / Tavel (Expelo) / Tavel (Fool) / Tavel (Fool) / Tavel (Venices)         X         X           1         1         1. Tavel (Expelo) / Tavel (Fool) / Tavel (Venices)         X         X           1         1         1. Tavel (Fool) / Tavel (Fool) / Tavel (Venices)         X         X           1         1         1. Tavel (Fool) / Tavel (Venices) <th></th> <th>10</th> <th>S</th> <th>7</th> <th>N</th> <th></th> <th>-</th> <th></th> <th>,</th> <th></th> <th></th>		10	S	7	N		-		,		
B         7         7         2         7         2         2         2         2         1         3         18         5         16         5         2         1         3         3         3         5         16         5         2         1         3         3         3         5         16         5         2         16         5         3         16         5         3         16         5         3         1         4         3<	3. Indus. / Compan. / Shops	-	ю	N	0	4	0				
21         13         16         5         16         5           %)         0.26         0.17         0.29         0.16         0.31         0.09           dminstraton         0ffice         0.17         0.29         0.16         0.31         0.09           dminstraton         0ffice         1 Travel (Vehicles) / Travel (Brocle) / Travel (Brocle) / Travel (Procle) / Travel (Vehicles)         NOTE : -         X           reton         Offices :         Travel (Scoti) / Travel (Foot) / Travel (Vehicles)         X         X           :         Livestock (Aldes etc.) / Sorghum / Maize / Ground Nuts         (X)         X           :         100.000 Uganda Shs         100.000 Uganda Shs         (*)	4. Residents (*)	80	7	7	~	7	~				
%)         0.26         0.17         0.29         0.16         0.31         0.09         0.00           dministration         Office         Travel (Venicies) / Travel (Bibciele) / Travel (Price)         NOTE :         X           Office         Travel (Venicies) / Travel (Foot) / Travel (Venices)         Travel (Venices)         X           ration         Office         Travel (Bibciele) / Travel (Foot) / Travel (Venices)         X           ration         Unstance (Librate etc.) / Sorghum / Maize / Ground Nuts         (A)           :         100.000 Uganda Shs         (*)	Total Talephone Demand	5	18	8	'n	18	ц		<b>.</b>	-	
dministration Office Travel (Vehicide) / Travel (Bibyole) / Radio Cali ( Rivate) NOTE : - Office Travel ( Vehicide) / Travel ( Foot) / Travel ( Vehicide) X table : Travel ( Ebydel) / Travel ( Foot) / Travel ( Vehicide) ( Rivate) : 100000 Uganda Shs ( A) (*)	Demand Density per 100 population (%)		0.17	0.29	0.16	0.31	0.09				
Office Travel (Vehicles) / Travel (Bicycle) / Radio Cali ( Rivate) X ration Offices : Travel ( Foor) / Travel ( Vehicles) ( X) : Livestock ( Hildes etc.) / Sorghum / Maize / Ground Nuts : 100.000 Ugande Shs (*)	Communication Method of County Admin	nistration Office						NO POST OF	FICE / NO LEFE	COM. FACILITY	
ration Offices : Travel (Ecycle) / Travel (Foot) / Travel (Verticles) (X) : Livestock (Hides etc.) / Sorghum / Maize / Ground Nuts (A) : 100.000 Uganda Shs (*)	From / to District Administration Office		Travel (Vehicle	s) / Travel (Bt	cycle) / Redio	Cali ( Pivate)	×	EXISTING POS	st office / ex	ISTING TELECOI	M. FACILITIES
Livestock ( Hidee etc.) / Sorghum / Maize / Ground Nus     (A) AGENCY POST OFFICE     100,000 Ugende Sts     (*) ESTIMATED DATA SY STUDY	From / to Sub - County Administration	n Offices :	Travel (Bicycle	) / Travel (Foot	) ·/ Travel (Vet	icles )	(x)	EXISTING TEL	ECOM FACILITI	ES BUT DAMAG	
100,000 Ugende Shs (*) ESTIMATED DATA BY STUDY	Main Products of County		Livestock ( Hic	etc.) /	num / Maize	Ground Nuts	( ¥ )	AGENCY POS	050		
	Average Annual Income per Person		100,000 Ugan				Ĵ	ESTIMATED D		Y TEAM	

	Tal	Table 4-10	Teleph	tone Den	nand at S	Sample (	Telephone Demand at Sample County (9/13)	(13)		
Region : Nortem	· .·	District :	Moroto		County :	Kadam	County : Kadam (Chekwi)		Category	о 
Name of Sub - Obunty	Moruita	Kakomonoole	Namahu	Nakaninit		(Hop 42(699)				
				Town Council	•					
Telecom. Post Office	1	. 1	1	×						
Facilities Telephone Office	1	ł	· 1	(X)						
Number of Parsh.	5	G	7							
Population	4,948	7,460	28,737	1,564						
Urban Population ( Nakapripit T.C. )	o	0	0	1,554						
Litbenization Rate (%)	o	0	0	100.00						
Governent Offices	:	4	9	2						
Post office	: -1 -			1 ( A )						
Police Station	-	-	•	i				 		
Hos pitei	,	-	1	1 (6) 1 (1) 1						
Health <sup>1</sup> Unit	•	۰ ا	е	. –						
Social Hotel	1	1	ł	1		1 1		:		
Facilities Large Lodge	1		ļ	1						
Secondary School	ı	-	1	1						
High Secondary School	ł	-	- 1	. 1	1					
College / University	r	1	1	1						
Theater	-	1	1	1						
Bark	(1)		(1)	(1)						
Other Public installations		-	4		:					
indus ties / Companies Large Scale	ł	1	1	1	:					
Large Scale	:									
Shops Medkum Scale	8 (*)	2 (*)	4 ( = )	e						
Fäling Station	ŀ	1		•						
Telephone 1. Govt. Office	- <b>11</b>	4	5							
Demand 2. Social Facilities / Others	<b>40</b>	<u>د</u>	a	4		·				
3. Indus, / Compan, / Shops		<u>.</u> 	י גא	е		:				
4. Residents (*)	5	è.	:11	5		•				- <b>-</b> -
Total Telephone Demand	40	13	8	41	:					
Demand Density per 100 population (%)	0.81	0.17	0.10	0.0						
Communication Mathod of County Administration Office	istation Office					NOTE :	NO POST OFFICE / NO TELECOM FACILITY	DE / NO TELEC	COM. FACIUTY	
From / to District Administration Office		Travel (Vahioka)	/ Radio Call (Priveta)	(Priveta)		×	EXISTING FOST OFFICE / EXISTING TELECOM, FACILITIES	OFFICE / EXIS	STING TELECON	A. FACILITIES
From / to Sub - County Administration Offices	Offices	Travel (Vehicles)	/ Travel (Foot)	k)		(x)	EXISTING TELECOM. FACILITIES BUT DAMAGED	DOM. FACILITIE	S BUT DAMAGE	
Main Products of County		Maize. / Beans	/ Millet. / Liv	/ Liventock (Hides .	, Skins )	(A)	AGENCY POST OFFICE	OFFICE		
Average Annual Income per Person	••	100,000 Uganda	STS.			•	ESTIMATED DATA BY STUDY	TA BY STUDY	TEAM	
									1	

 Table 4-11
 Telephone Demand at Sample County (10/13)

Region : Western

County : Kinkizi Category : D District : Rukungiri

						(Dun 169 244				
				ļ						
Name of Sub-County	Kirma	Rutenga	Rugyeyo	Kambuga	Nyamrama	id the	Kenyarrogo	Kayonza		
Telecom. Post Office	×	1	I	×		×		1		
	×	I	1	×	1	I	1	I		
Number of Parsh	ø	4	4	9	S	6	(NEW)	Q		
Population	27,152	13,188	19,505	27,334	13,939	40,006	0	27,720		
Urban Population (Khihi)	0	o	o	0	0	1,786	( NEW )	1,504		
Urbenization Rate (%)	o	0	0	0	0	4,46		5.42		
Government Offices	e 1	•	-		-	\$	4	4		. :
Post office	-	1	1	1 (A)		( Y ) ( Y )		1		:
Police Station	+-	5	. 1	-	1 . 1	2	1	••		
Hos Ditel	1	I	1	1	<b>.</b>	-	1	1		
Health Unit	-	-	*-	1	2	-	-	2		
Social Hotel	0	1	-	2	•	S	-	1.		
Facilities Large Lodge	F	1	t	8	1	4	1	-		
Secondary School	2		2	e S	•	2	1	-		
High Secondary School	-	1	ï.	1	1	-	1	L		
College / University	÷	1	-	F	1	-	1	1	-	
Theater	N	<b>i</b>	Ŧ	1.		-	1	ï		
8 Ent	<b>ب</b>	1	1	-	I	1	ı	1		
Other Public installations	n	2	2	5	e	4	-	0	-	
Indus tries / Companies Large Scale	1		F	1	1	1	1	8		
ങ	1	1	I	1	-	0	1	ł		
Shops Medium Scale	S	4 (*)	3 (*)	7	2 (*)	5	5 (*)	4 (")		
I .	-	1	I	1	I	ന	1	•		
1. Govt. Office	e	•	-	<b>*</b> *	-	4	-	4		
Demand 2. Social Facilities / Others	17	4	2	4	. 7	8	S	a		
3. Indus. / Compan. / Shops	5 8	4	4	თ	9	16	S	4		
4. Residents ( * )	16	υ	7	16	4	25	2	<b>ç</b>		
Total Telephone Demand	42	\$	6	43	18	67	18	27		:
Demand Density per 100 population (%)	%) 0.15	0.11	0.10	0.16	0.13	0.17		0.10		
Communication Method of County Administration	dministration Office					NOTE : 1	NO POST OF	NO POST OFFICE / NO TELECOM. FACILITY	COM. FACILITY	
From / to District Administration Office	Xfice :	Travel (Vehictes)		/ Radio announcement / Post Office	Post Office	×	EXISTING FO	st office / ex	Existing Post office / Existing telecom. Facilities	ACILITES
From / to Sub - County Administration (	ation Offices :	Trevel (Vehicles	(as)			(X)	EXISTING TEL	ECOM. FACILIT	EXISTING TELECOM. FACILITES BUT DAMAGED	
Main Products of County		Tea / Tebecco	co / Cottee			(¥)	AGENCY POST OFFICE	ST OFFICE		
Average Annual Income per Person	· • •	100,000 Uganda	nda Shs	:	-	()	ES TIMATED	ESTIMATED DATA BY STUDY TEAM	Y TEAM	

Table 4-12         Table 4-12 <th co<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th></th>											
Vesterin         District : Kabarole         County : Mwenge                •         Burliti         Bugaeti         Nyantungo         Kazota         Burliti                •         Burliti         Bugaeti         Nyantungo         Kazota         Burliti                •                 •              •               •               •                 •               •               •                  •		Tat	ole 4-12		ione Den	nand at (	Sample C	Jounty (1	1/13)			
Buffil         Bugaeti         Kyerusoti         Nyantungo         Kanoka         Buffil           10         X                 10         2         A         5         6         3         5         6         5           1         1         1         1         1         1	Region : Western		District :			County :	Mwenge		Category	ш		
Term         Term <th< th=""><th>Name of Sub - County</th><th></th><th>E</th><th></th><th></th><th></th><th>(Pop. 191,241</th><th></th><th></th><th></th><th></th></th<>	Name of Sub - County		E				(Pop. 191,241					
Tico         X         -			Nascue	Kyarusozi	Nyantungo	Katooka	gunng	Kihura				
Res         X         -	ŀ	×	1	1	1							
6         4         5         6         8         5         8         5           26.401         20.156         32.269         35.51         30.802         12.456         0 <td< th=""><th></th><th>×</th><th>I</th><th>1</th><th>. 1</th><th><b>.</b> 1</th><th>1</th><th> </th><th></th><th></th><th></th></td<>		×	I	1	. 1	<b>.</b> 1	1					
(1)     0     0     0     0     0     0     0       (1)     1     1     1     1     1     1     1       (1)     0     0     0     0     418     0     0       (1)     1     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1)     1     1     1     1     1     1       (1) <t< th=""><th>Number of Parish</th><th>5</th><th>4</th><th>s</th><th>8</th><th>60</th><th>. v</th><th>a</th><th></th><th></th><th></th></t<>	Number of Parish	5	4	s	8	60	. v	a				
0       0       0       0       1488       0	Population	26,481	20,156	32,289	35.851	38.802	12 458	25 SUE				
1     1     1     1     2     1     1       1     1     1     1     1     2     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1 <th>Liben Population (Kyenbjo)</th> <th>0</th> <th>o</th> <th>0</th> <th>1,499</th> <th>0</th> <th></th> <th>0</th> <th></th> <th></th> <th></th>	Liben Population (Kyenbjo)	0	o	0	1,499	0		0				
1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     2     1     1     1       evesty     1     1     1     2     1     1     1       evesty     1     1     1     1     1     1       evesty     4     3     3     1 <th>Urbenization Rate (%)</th> <th><b>0</b></th> <th>0</th> <th>0</th> <th>4.18</th> <th></th> <th></th> <th>0</th> <th>,</th> <th></th> <th></th>	Urbenization Rate (%)	<b>0</b>	0	0	4.18			0	,			
1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       2     3     3     2     1     1     1     1     1       ay School     1     1     1     1     1     1     1       ay School     1     1     1     1     1     1       ay Scho		- - - -	-	1	~	-	-	-				
n     1     1     1     1     1     1       n     1     1     1     1     1     1     1       ethol     1     1     1     1     1     1     <	Post office	1 (A)	ti i	1	.1		1	1				
a     a     a     a     a     a     a     a       chool     -     -     -     -     -     -     -     -       evently     1     -     -     -     -     -     -     -       evently     1     -     -     -     -     -     -     -       evently     1     1     1     1     -     -     -     -       evently     1     1     1     1     -     -     -     -       evently     1     1     1     1     -     -     -     -       evently     1     1     1     1     -     -     -     -       evently     1     1     1     1     -     -     -     -       evently     4     3     3     3     9     8     5     2       n     -     -     -     -     -     -     -     -       evently     -     -     -     -     -     -     -     -       n     1     1     1     1     -     -     -     -       n     -     1	Police Station	- <b>1</b> -	1	1	-	-	-	-				
3     3     2     1     1     1       ethol     -     -     -     -     -     -     -       avy School     1     -     -     -     -     -     -     -       avy School     1     -     -     -     -     -     -     -     -       avy School     1     -     -     -     -     -     -     -     -       avy School     1     -     -     -     -     -     -     -     -       avy School     1     -     -     -     -     -     -     -     -       avs School     1     -     -     -     -     -     -     -     -       avs School     1     -     -     -     -     -     -     -     -       avs School     1     -     -     -     -     -     -     -     -       avs School     1     1     1     1     -     -     -     -       avs School     1     1     1     1     -     -     -     -       avs School     1     1     1     1     1	Hospital	1		1	1	1	•	1				
Prioci     -     -     -     -     -     -       ensity     -     -     -     -     -     -     -       ensity     1     -     -     -     -     -     -     -       ensity     1     -     -     -     -     -     -     -     -       ensity     1     -     -     -     -     -     -     -     -       ensity     1     1     1     1     -     -     -     -     -       ensity     1     -     -     -     -     -     -     -     -       ensity     1     1     1     1     1     -     -     -     -       ensity     1     1     1     1     1     1     -     -     -       ensity     1     1     1     1     1     1     -     -     -       ensity     1     1     1     1     1     1     -     -     -       ensity     1     1     1     1     1     1     -     -     -       n     1     1     1     1     1 <th>Health Unit.</th> <th>9</th> <th>8</th> <th>Q</th> <th>-</th> <th></th> <th>-</th> <th>~</th> <th></th> <th></th> <th></th>	Health Unit.	9	8	Q	-		-	~				
erboli     -     -     -     -     -     -     -       erboli     -     -     -     -     -     -     -     -       eestiy     1     -     -     -     -     -     -     -     -       eestiy     1     1     -     -     -     -     -     -     -       eestiy     1     1     1     -     -     -     -     -     -       eestiy     1     1     1     1     -     -     -     -     -       eestiy     1     1     1     1     -     -     -     -     -       eestiy     1     1     1     1     1     -     -     -     -       eestiy     3(e)     3(e)     3(e)     3(e)     3(e)     3(e)     2(e)     2(e)       n     -     -     -     -     -     -     -     -     -       n     -     1     1     1     1     1     -     -     -       n     -     -     1     1     1     1     -     -     -       n     -     -		. <b>.</b>	- 1- - 1-			i i						
erstry     1     - <td< th=""><th></th><th>ŀ</th><th></th><th>-</th><th>1</th><th></th><th>1</th><th>1</th><th></th><th></th><th></th></td<>		ŀ		-	1		1	1				
ary School     1     -     -     -     -     -       weshy     1     -     -     -     1     1     -       weshy     1     -     -     -     1     1     -     -       weshy     -     -     -     -     -     -     -     -       weshy     -     -     -     -     -     -     -     -       weshy     -     -     -     -     -     -     -     -       weshy     -     -     -     -     -     -     -     -       weshy     -     -     -     -     -     -     -     -       wesh     -     -     -     -     -     -     -     -       wesh     -     -     -     -     -     -     -     -       wesh     -     -     -     -     -     -     -     -       wesh     -     -     -     -     -     -     -     -       m     -     -     -     -     -     -     -     -       m     -     -     -     -	Secondary School	1	1	ر 1 مر المراجع الم	61	-				:		
vessity     1     1     1     1       vessity     1     1     1     1     1       -     -     -     -     -     -     -       -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -	High Secondary School		-	· · · · · · · · · · · · · · · · · · ·	1		- - -					
1     1     1     1     1     1     1       sige Scale     -     -     -     -     -     -     -       sige Scale     -     -     1     1     1     -     -       sige Scale     -     -     -     -     -     -     -       sige Scale     -     -     1     1     1     -     -       sige Scale     -     -     -     -     -     -     -       sige Scale     -     -     1     1     1     -     -       sige Scale     -     -     -     -     -     -     -       n     1     1     1     1     1     -     -       n     -     -     1     1     1     -     -       n     -     -     1     1     1     -     -       n     -     -     1     1     1     -     -       n     -     -     1     1     1     -     -       n     -     -     -     1     1     1     -       n     -     -     -     -     -     -	College / University	•	-	4	1	. 1		1				
rege Scale     -     -     -     -     -       rege Scale     -     1     1     1     -     -       rege Scale     -     -     -     -     -	Theater	•	1	1	-							
rige Scale     -     1     1     1     -       rige Scale     -     1     1     1     -     -       n     1     -     -     2     2     -       n     1     1     1     1     -     -       n     -     1     1     1     -     -       n     -     1     1     1     1     -       n     -     1     1     1     1     -       n     -     1     1     1     -     -       n     -     1     1     1     -     -       n     -     1     1     1     1     -       n     -     1     1     1     -     -       n     -     1     1     1     -     -       n     -     1     1     1     -     -       n     -     1     1     1     -     -       n     -     1     1     1     -     -       n     -     1     1     1     -     -       n     -     -     1     1     -     -	Bank	1	1	1	-	1	· 1	1				
arge Scale     -     1     1     -     -     2     2       arge Scale     1     -     -     2     2     -     -       arge Scale     1     -     -     2     2     -     -       arge Scale     1     1     -     2     2     -     -       arge Scale     -     1     1     1     2     2     -       arge Scale     -     1     1     1     2     2     -       arge Scale     -     3     3     3     3     5     -     -       arge Scale     -     -     1     1     1     1     -     -     -       arge Scale     1     1     1     1     1     1     -     -     -       fee / Others     3     6     4     3     14     30     19     8       burnity Administration (%)     0.08     0.03     0.04     0.06     0.05     0.05       burnity Administration Office     Travel (Vehicles)     Travel (Vehicles)     Administration (Vehicles)     Administration (Vehicles)     NOTE : -       ferson     14     30     19     0.05     0.05     0.05 <th>Other Public installations</th> <th>1</th> <th>F</th> <th>T</th> <th>ľ</th> <th>1</th> <th>ľ</th> <th>1</th> <th>:</th> <th></th> <th></th>	Other Public installations	1	F	T	ľ	1	ľ	1	:			
0     1     -     -     2     2     -       0     4     3(*)     3(*)     3(*)     3(*)     2(*)     2(*)       0     -     1     1     1     1     2     -     2(*)     2(*)       0     -     1     1     1     1     1     1     2(*)     2(*)       1     1     1     1     1     1     1     2(*)     2(*)     2(*)       1     1     1     1     1     1     1     1     2(*)     2(*)       1     1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     2     1     1       1     1     1     1     1     2     2(*)     2(*)       1     1     1     1     1     2     1     2       1     1     1     1     2     1     2     3       1     2     14     30     14     30     0.05       1     1     2     14     30     13 </th <th></th> <th></th> <th>·· 1</th> <th>-</th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>			·· 1	-	-							
*         4         3(*)         3(*)         3(*)         5(*)         2(*)           n         -         1         1         1         1         2         1         2           n         -         1         1         1         2         1         1         2         1           n         -         1         1         2         1         2         1         1           pen./Shops         5         4         4         1         7         2         2           pen./Shops         5         14         30         13         7         3         3           j         2         5         14         30         19         8         3         0	Large Scale		•	1	7	8		2				
n         -         1         1         1         1         -         -         1         1         1         -         1	1	4	3 (*)	3 ( * )	8 (*)	5 (*) ;	(*)	5 (*)				
ies     / Chtos     3     6     4     6     4     2       pen. / Shops     5     4     4     11     7     2       pen. / Shops     5     4     4     11     7     2       pen. / Shops     5     4     4     11     7     2       pen. / Shops     5     14     30     13     5       pen. / Shops     22     18     14     30     19     5       utation (%)     0.08     0.09     0.06     0.05     0.05       burry Administration Office     Travel (Vehicles)     14     30     19     5       Administration Office     Travel (Vehicles)     14     30     0.05     0.05     0.05       Person     Travel (Vehicles)     Travel (Vehicles)     1     1     7     3       Person     1     1     2     14     30     10	Faling Station	1				1	I					
(a)         (2)         (4)         (4)         (2)           pan.         (5)         (4)         (1)         (7)         (2)           pan.         (5)         (4)         (1)         (7)         (2)           pan.         (5)         (1)         (7)         (2)         (2)           pan.         (5)         (1)         (7)         (2)         (2)           pan.         (5)         (2)         (1)         (7)         (2)           pan.         (5)         (2)         (3)         (1)         (7)         (2)           burly         Administration         (1)         (2)         (2)         (2)         (2)         (2)         (2)           burly         Administration         (1)         (2)		•	-	-	N		-	-				
per. / Shops         5         4         4         11         7         2           )         3         7         5         11         7         3         3           )         22         15         14         30         19         8         3           Multibrin (%)         0.08         0.09         0.04         0.06         0.05         0.05           Dunity Administration Office         1.tavel (Vehicles)         0.04         0.06         0.05         0.05           Administration Office         1.tavel (Vehicles)         1.tavel (Vehicles)         NOTE: -         1.tavel (Vehicles)         X           Person         1         Tothe / Bencrie / Millet         (Millet         (A)         (A)	۰.	80	÷	4	60	4	N	ю				
)         3         7         5         11         7         3           Lulation (%)         22         18         14         30         19         8           Lulation (%)         0.08         0.09         0.04         0.05         0.05         8           Durity Administration Office         0.04         0.06         0.05         0.05         0.05           Administration Office         Travel (Vehicles)         1.4         30         15         -           Administration Office         Travel (Vehicles)         NOTE :         -         0.05         0.05         0.05           Ferson         :         Texel (Vehicles)         .         .         .         .         .         .	3. Indus. / Compan. / Shops	S	4	4		. ~	8	7				
22         18         14         30         19         8           Uutation (%)         0.06         0.09         0.05         0.05         0.05           Sounty Administration Office         0.09         0.06         0.05         0.05         0.05           Sounty Administration Office         Travel (Vehicles)         1         NOTE: -         NOTE: -           Administration Office         Travel (Vehicles)         NOTE: -         NOTE: -         (X)           Person         :         Tex./ Ocfiee / Bencine / Millet         (A)         (A)	4 Residents (*)	8	. 2	Ś	11	2	0	<b>6</b> 0				
utilition (%)         0.06         0.05         0.05         0.05           bounty Administration Office         0.03         0.04         0.06         0.05         0.05           bounty Administration Office         Travel (Vehicles)         NOTE : -         NOTE : -         X           Administration Offices         Travel (Vehicles)         Travel (Vehicles)         NOTE : -         X           Administration Offices         Travel (Vehicles)         Travel (Vehicles)         (X)         (X)           Person         :         Texel (Vehicles)         Iterate (Millat         (A)	Total Telephone Demand	8	8	4	g	6 0	eo	21				
Durity Administration Office     NOTE : -       Intertion Office     Travel (Vehicles)       Administration Offices :     Travel (Vehicles)       Intertetion     Travel (Vehicles)       Person     :	Demand Density per 100 population (%)	0.08	0.09	0.04	0.08	0.05	0.05	0.08				
stration. Office : Travel (Vehicles) X Administration. Offices : Travel (Vehicles) (X) : Tea. / Ooffee / Banana / Milid (A) Person : 120.000 Usenda Sha	Communication Method of County Adminis	station Office	- - 				NOTE : -	NO POST OF	FICE / NO TELE	COM. FACILITY		
Administration Offices : Travel (Venicles) (X) (X) : Tear / Onthe / Bancara / Milet (A) Person : 120.000 Upanda Shs	From / to District Administration Office		Travel (Vehicie	( )			×	EXISTING PO	st office / Exis	STING TELECON	A. FACILITIES	
: Tea / Octies / Banaria / Millet (A) Person : 120.000 Usenda Sha	From / to Sub - County Administration	Offices :	Travel ( Vehicle	8)			(x)	EXISTING TEL	ECOM. FACILITE	S BUT DAMAGE	្ត	
Person 120,000 Udanda She (*) Eximitation Data BY Shiny	Main Products of County	•	Tes / Cottee /	Britane			(¥)	AGENCY POS	T OFFICE			
		а 					. E	ESTIMATED 1	ATA BV STIM	TEAN		

EXISTING POST. OFFICE / EXISTING TELECOM. FACILITES (X) EXISTING TELECOM FACILITIES BUT DAMAGED NO POST OFFICE / NO TELECOM. FACILITY ESTIMATED DATA BY STUDY TEAM Category : E (A) AGENCY POST OFFICE 
 Table 4-13
 Telephone Demand at Sample County (12/13)
 Ruteete 33,612 ο 3(\*) 800 I 1 8 N ເດ ı ŝ ŝ :-1 ŧ. ı Т ı. (Pop. 145,541) 3 County : Burahya × NOTE : Nugueu 15,602 £ 0.07 1 1 F 1 4 1 I 1 ~ ı 1 ø -1 Kicwamba 19,831 Ö : ñ 1 1 0.07 ო I Karambi 16.476 0 1 1 0.08 4 ო Travel (Vehicles) / Telephone District Kabarole Hakibale 28,591 0 1(A) 0.15 Tea / Coreals / Cottee × 1 ø <u>e</u> ę ų, 0 თ ŝ 84,000 Uganda Shs Travel (Vehicles) Busiono 15,790 0 4 (\*) 220 1 I Ň <u>0</u> ន 4 ı I £ 1 s ო e ้ณ Communication Method of County Administration Office Bukuku •• 15,439 o σ 0.14 S (\*) 1 1 ន 1 ı 1 ı 4 ന --1 -. • From / to Sub - County Administration Offices From / to District Administration Office Demand Density per 100 population (%) 3. Indus. / Compan. / Shops Region : Western 2. Social Facilities / Others High Secondary School Industries / Companies Large Scale Average Annual Income per Person College / University Secondary School Telephone Office 4. Residents (\*) Medium Scale Fiting Station Police Station Large Scale 1. Govi, Office Large Lodge Health Chit Post Office Post office Total Telephone Demand Main Products of County Name of Sub - County Hos pita Other Public installations Urbanization Rate (%) Theater Hote Bank Government Offices Number of Parish Urban Population Telephone Population Facilities Telecom. Facilities Demand Social Shops

 Table 4-14
 Telephone Demand at Sample County (13/13)

	•	i			- 1	• •	• :	•		
uleiseve . Inigeri			Kibale		County :	Buyaga (Pp. 139.866)		Category :	ш 	
Name of Sub - County	Kagadi	Metherele	Muttoro	Bwikara	Kiryanga	Kyanasoka				
Telecom, Post Office	×	1	1	1	1	1				
Facilities Telephone Office	×	1	ł	I	ļ	1		. •		<u>.</u>
Number of Parish	e	4	0	5	0	9				
Population	23,393	27,201	21,686	35,277	13,620	16691				
Urban Population (Kegedi, Muhomo)	1,448	0	1,082	0	0	0				
Urbenization Rate (%)	6.19	•	4,99	0	0	0	· · ·			
Goverment Offices	- - -	1	1	L L						
Post office	1(A)	1	1	ł	1					
Police Station	·	-	-	-	ŀ	-				
Hard Soft	- 		1	ł	1	1				
Heistth Unit		-	CV.	-	6	4				
Social Hotel		•	1	1	•	L				
Facilities Large Lodge	2	1	- <b>I</b> - -	1	1	1				
Secondary School	÷,	1		ľ	-	· 04				
High Secondery School	1	1	. 1	1						
College / University	1		1			I				
Theatier		1	1	1 1 1		I				
Berik	1	1	1	. 1	1			 -		
Other Public instellations	. 5	2		-	F	0				
Industries / Companies - Large Scale	-	1	1	5	1					
Large Scele	·+	1		1		-				
Shops Medium Scala	Ø	2	6 (*)	2 (*)	3 (*)	s (*)				
Filing Station	-	1	3	1		1				
Telephone 1. Govt. Office	5	o	0	0	0	•				
Demand 2. Social Facilities / Others	14	S	~	භ	4	ţ	-		• · · · ·	
3. Indus, / Compan. / Shops		ŝ	· ۲	4	ø	. 9	 -			
4. Residents (*)	21	4	8	4	4	9			-	
Total Telephone Demand	8	F	8	11	ħ	8				
Demand Density per 100 population (%)	0.24	0.04	0.10	0.03	0.08	0.14				
Communication Method of County Administration Office	listration Office	-				NOTE	NO POST OFFI	NO POST OFFICE / NO TELECOM. FACILITY	DOM. FACIUTY	
From / to District Administration Office		Post Office / Ru	Post Office / Radb Announcement / Messengers	tent / Messenge	ß	<b>×</b>	EXISTING POST	- OFFICE / EXIS	EXISTING POST OFFICE / EXISTING TELECOM, FACILITIES	FACILTIES
From / to Sub - County Administration	) Offices :	Post Office / N	Masengers			(x)	EXISTING TELE	COM: FACILITE	EXISTING TELECOM: FACILITIES BUT DAMAGED	9
Main Products of County		Cottee / Ground	Cottee / Ground Nuts / Meize	/ Banana		(Y)	AGENCY POST OFFICE	OFFICE		
Average Annual Income per Person		600,000 Ugenda	a Shs			0	ESTIMATED DATA BY STUDY	VIA BY STUDY	. TEAM	

Table 4-15 The Number of Existing Connection Lines in User Categories

(Field Survey Area)

Ö	Canacity		()	001				***
	インシング		USG	Don	use	asn		
Masaka	2,000	Central	74	132	451	208	2.17	6 <u>6</u> 0
uwero	2	Central	4-	12	0	26	0.73	45
Mpigi	<u>8</u>	Central	16	12	18	58	0.0	46
Vakasongola	12	Central	10	10	12	20	0.00	32
Mubende	1 000	Central	46	21	17	67	0.25	8
Kakumiro	8	Western	IJ	4	*	ົດ		20
Kasese	1,000	Western	20	157	<del>3</del>	207	0.15	238
Fort Portal	800	Western	180	200	02	380		450
Rukungiri	18	Western	24	62	4	86		5
Mbarara	2,000	Western	174	302	429	476		90 90
bushenvi	1,000	Western	59	0e	51	68		4
Kabale	3,000	Western	68	41	472	212		687
Hoima	300	Western	20	88	0°	138	•	188
Kitgum	110	Northrn	35	40	12	75		87
Arua	150	Northrn	40	48	ω	88		96
Moroto	270	Northrn	66	18	N	108		10
Jinja	2,400	Eastern	317	580	537	897	•	1434
Mbale	1,380	Eastern	450	780	350	1230		1580
Tororo	1,000	Eastern	95	S	72	178		250
Busia	18	Eastern	10	50	26	09	0.43	86

#### UGANDA POSTS AND TELECOMMUNICATIONS CORPORATION (QUESTIONNAIRE FOR MASTER PLAN OF JICA)

Marketing Survey for New Services (Data communications etc.)

		Date :	······································
1. Name of Institut	ion/Organization (		) )
2. The category of	Institution/Organization (		)
3. The number of em	ployees/staffs (		1 1 <b>)</b> 1
4. The number of Br	anches in Uganda (		) )
5. Telecommunicatio Existing Services	n Facilities & Office Au	tomation ( OA	<b>, )</b> ,
(1) How many tele institution/or	phones/other equipments ganization ?	are there i	n your
Headquarter	Direct Exchange Lines	and the second sec	) •
	Extensions Lines	(	· · · · · · · · · · · · · · · · · · ·
	PABX	(	• )
	Teleprinter (Telex)	(	) )
	FAX machines	· · · · · · · · · · · · · · · · · · ·	а <sup>н</sup> ара <b>)</b>
Branches			

Name of Branch	Telephone Lines	TelephoneExtensionPABXLinesLines(Line)		Teleprinter	FAX	
·						

(2)	How many leased circuits are there in your instit organization ?	ution /
	For Telephone ( For Data Communications (	Lines ) Lines )
:	a) Which type of equipment is used ? (	)
	<pre>b) State the communication Protocol used. (</pre>	)
:	c) Frequency of engagement of equipment. (	)
(3)	How many computers are there in your institu organization ?	ition /
	Main Frame Computers (Host Machine/Manufacturer) ( /	)
	Personal Computers/Work-stations connected to Main ( Sets /	Frame Sets )
(4)	Special Telephone Services (at Kampala)	
	Are you using special telephone services such following in your institution/organization ?	as the
	Hotline(Detailed billing(Temporary Transfer(Abbreviated Dialling(Alarm Call(Conference Call(Registered Call(Do Not Disturb(Malicious Call Tracing(Home Location Meter(Priority Line(Out-going Calls(In-coming Calls(Restriction on Trunk and IDD Calls(	
<u>Pla</u>	anned Services	
	Does your institution/organization require communication service ?	
8	a) Presently(k	y 1994)
	o) Immediate future(within 5	
c	c) Long term(within 20	) years)

(2) Possible Communication Route

a) Locally

#### b) Trunk/National

c) Regional/Interstate

- d) International
- (3) Other facilities you would wish to be included :
- (4) Data Speeds

a)	1200  bps	(	
bý	2400 bps	( )	
C)	4800 bps	÷ (	
c) d)	9600 bps	(	

- (5) Does your institution/organization have any interest in the following new services ?
  - a) Mobile telephone (Car telephone/Handy-phone)
  - b) Radio-paging

(6) Does your institution/organization have the plan to establish Private Network?

System :

Network Configuration ( Between which branches ) :

17-no-m	m <sub>e</sub>	Number of		
From	То	Terminals	Lines	

6. Any other comments

7. Address and Person (Optional) of firm/contact.

How many persons are working in OA (Office Automation) Division ? ( )

8. Interviewer

UGANDA POSTS AND TELECOMMUNICATIONS CORPORATION P.P. BOX 7171, KAMPALA - UGANDA.

### ADDITIONAL SHEET

#### Branches

Name of Branch	Telephone Lines	Extension Lines	PABX (Line)	Teleprinter	FAX
	r				
	· · · · · · · · · · · · · · · · · · ·				
- - -					
:		· · · · · · · · · · · · · · · · · · ·			
					• .
					· · ·
		1			
					e nativi
:					

# Table 4-16List of Parastatal Bodies, Large Companies and Embassics<br/>on Composite Accounts (1/4)

As o	f 1	993
------	-----	-----

	A. BANKS AND FINANCIAL INSTITUTIONS		
(1	The num	ber of use	ers:15, The number of estimated Data terminals:105)
No.	CODE	Sample	Name of Companies / Parastatals / Embassies
1	207	X	EAST AFRICAN DEVELOPMENT BANK
2	212		BANK OF UGANDA
3	255	X	BARCLAYS BANK OF UGANDA
4	261		GREENLAND BANK
-5	226	X	STANDARD BANK
6	228		UGANDA DEVELOPMENT BANK
7	235	X	UGANDA COMMERCIAL BANK HQ.
(7)	(236)	(X)	UGANDA COMMERCIAL BANK (FINANCIAL DIVISION)
(7)	(237)	(X)	UGANDA COMMERCIAL BANK (INT. DIVISION)
(7)	(238)		UGANDA COMMERCIAL BANK (CITY BRANCH)
(7)	(239)	(X)	UGANDA COMMERCIAL BANK (SAVING BRANCH)
8	247		LIBYAN ARAB BANK
9	248		GOLD TRUST BANK
10	249		COOPERATIVE BANK
11	250		DIAMOND TRUST BANK
12	251		BANK OF BARODA
13	253	· · ·	NILE BANK
14	254	• X	GRINDLAYS (STANIBIC BANK)
15	274		FOREX BUREAU

# Table 4-17List of Parastatal Bodies, Large Companies and Embassies<br/>on Composite Accounts (2/4)

STATISTICS.			As of 1993
			ES (PARASTETALS)
(	the num	ber of use	ers: 42, The number of estimated Data terminals: 147)
	OODE		
<u>No.</u>		Sample	Name of Companies / Parastatals / Embassies
	200	· · · · ·	NATIONAL SOCIALSECURITY FUND
2	201		UGANDA RAILWAYS CORPORATION
3	203		CUSTOMS DEPARTMENT
4	204		
:5	205		METEOLOGICAL DEPARTMENT
6	206		VIRUS RESEARCH
7	208		UGANDA NATIONAL EDUCATION BOARD
8	209		INTER - UNIVERSITY COUNCIL
9	210	X	UGANDA ELECTRICITY BOARD
	211		KAMPALA CITY COUNCIL
11	213		UGANDA HOTELS
12	214		NATIONAL HOUSING CONO. CORP.
13	216		UGANDA PHARMACEUTICAL LTD.
14	218		NATIONAL INSURANCE CORP.
15	219	X	UGANDA WATER SOWEGE CORP.
16	220		LINT MARKETING BOARD
17	221		COFFEE MARKETING BOARD
18	223		UGANDA DEVELOPMENT CORPORATION
19	224	· · ·	DIALY CORPORATION
20	258		UGANDA TRANSPORT COMPANY
21	259		UGANDA REV. AUTHORITY
22	260		UGANDA INV. AUTHORITY
23	263		NEW VISION
24	267		STEEL - CORPORATION
25	268		SUGAR CORP. OF UGANDA
26	227		OIL MILLS
27	229		PMB - PRODUCE MARKETING BOARD
28	230		UGANDA GRAIN MILLING CORP.
29	231		CUSTODIAN BOARD
30	234		UGANDA INTERNATIONAL CONFERENCE CENTER
31	240		FOODS & BEVERAGES
32	242		TRANSOCEEN
33	244		JINJA MUNICIPARITY COUNCIL
34	246		NATIONAL ENTERPRISE LIMITED
35	252		GOVERNMENT CENTRAL PURCHASING BOARD
36	252 254		UGANDA NATIONAL PARKS
37	269		UGANDA TEA CORP.
38	300	x	
		^	B.A.T 1984 LTD.
39	301		SPEAR MOTORS LTD.
40	319		UGANDA COOPERATIVE CENTRAL UNION
41	326		AIDS CONTROL PROGRAMME
42	330		N.U.R. PROGRAMMS

Table 4-18List of Parastatal Bodies, Large Companies and Embassies<br/>on Composite Accounts (3/4)

			As of 1993	
	INDUST			
[]	he num	ber of use	ers:27 ,The number of estimated Data terminals:54)	
	CODE			
	CODE 217	Sample	Name of Companies / Parastatals / Embassies	
1 2	217		UGANDA CEMENT INDUSTRY	
23	262		CALTEX OIL	
4	262		GOMBA FISHING	
5	265		UGANDA LEATHER TENNING	
6	.241		UGANDA GARMENT INDUSTRY LTD.	
7	243		NILE BREWERIES	
8	245		NYTIL (TEXTILES)	
9	307		SHELL UGANDA LIMITED	
10	308		UGANDA BREWERIES LTD.	
11	310		GAILEY & ROBERTS LTD.	
12	311		BLENDERS LIMITED	
13	315		VITE FOAM LTD.	
14	316		DUNLOP LIMITED	
15	317	:	CHILLINGTON UGANDA LIMITED	
16	318		UGANDA BATA SHOES CO.	
17	272		SCOUL LIMITED	
18	273		METRO POLITAN PROTERTIES	
19	275		TOTAL U – LTD.	
20	276		AGIP U – LTD.	
21	296		HB – GAUF	
22	302		MUKWANO INDUSTRIES LTD.	
23	.305		MEDHVANI	
24	. 306		SEOWRIKO	
25	320		UGNA	
26	327		AMREF	
27	an An an an Anna	Χ.	ESSO STANDARD LTD.	
	TRANSF			
(1	he num	ber of use	ers: 6, The number of estimated Data terminals : 30)	
Na	CODE	Commis	Name of Communica ( Departmental / Fault series	
	202		Name of Companies / Parastatals / Embassies UGANDA AIRLINES CORP.	
1 2		X	ETHOPIAN AIRLINES	
2 · 3	270 271	^	AIR FRANCE	
3	297		SABENA AIRLINES	
-4-	297 303	X	BRITISH AIRWAYS	
5 6.	329	^	KENYA AIRWAYS	
	HOTELS			
	(The number of users : 5, The number of estimated Data terminals : 15)			
No.	CODE	Sample	Name of Companies / Parastatals / Embassies	
1	215		SHARATON HOTEL	
2	225		CRESTED CRANE HOTEL	
3	233		NILE HOTEL	
-4	323		LAKE VICTRIA HOTEL	
5	328	· ·	HOTEL EQUATORIA	

Table 4-19List of Parastatal Bodies, Large Companies and Embassies<br/>on Composite Accounts (4/4)

			As of 1993
	EMBAS		
	The num	ber of use	ers:26, The number of estimated Data terminals:24)
No.	CODE	Sample	Name of Companies / Parastatals / Embassies
1	401		BRITISH HIGH COMMISSION
2	402	х	AMERICAN EMBASSY
3	403	Х	GERMANY EMBASSY
4	404		FRENCH EMBASSY
5	405	Х	ITALIAN EMBASSY
6	406		S. KOREAN EMBASSY
7	407		TANZANIAN HIGH COMMISSION
8	408	Х	INDIAN HIGH COMMISSION
9	409	Х	RUSSIAN EMBASSY
10	410		SUDAN EMBASSY
11	412		KENYA HIGH COMMISSION
12	413		LIBYAN PEOPLE'S BUREAU
13	414		BURUNDI EMBASSY
14	415		SOMALI EMBASSY (CLOSED)
15	416		EGYPTIAN EMBASSY
16	417		ZAIRE EMBASSY
17	418		CUBA EMBASSY
18	419		VATICAN EMBASSY
19	420		ROYAL DANISH EMBASSY
20	421		ALGERIAN EMBASSY
21	422		SAUD ARABIA (CLOSED)
22	423		RWANDA EMBASSY
23	424		CHINEESE EMBASSY
24	430		PALESTENIAN EMBASSY
25	435		N.KOREAN EMBASSY
26	438		FRANCH EMBASSY COMMERCIAL SECTION
G.	N.G.O		to 1.14. The number of estimated Data terminals (40)
		ber of use	ers:14,The number of estimated Data terminals:42)
No.	CODE	Sample	Name of Companies / Parastatals / Embassies
1	314	- oumpio	CHURCH OF UGANDA
2	331		
3	332		C.O.U. NAMIRAMBE
4	425		UNDP
5	426		EEC
6	427		WORLD BANK
7	428		USAID
8	429		WHO are a second and a second s
9	431		ICRC
10	432		UNHCR
11	434		FAO
12	436		W.F.P.
13	237		US PEACE CORP.
14		X	UNICEF

### 5. Field Survey Data in Telecom. Facilities

JICA Master Plan Study

Team 3 consisting of four engineers of JICA and two engineers of UPTC as counterparts concentrated on telephone facility survey as shown on the following schedule. Questionnaires for subscribers, call traffic, facilities and so on, were used for data collection. And at the same time, the team obtained personnel organization data from the Regional Telecommunications Managers (RTM).

Days	Date (Nov.,93)	Route	Visiting Place	Stay
1	15 (Mon.)	Kampala > Mbale		Mbale
2	16 (Tue.)	Mbale > Kapchorwa > Mbale	Kapchorwa T/F	
			Mbale T/F	Mbale
3	17 (Wed.)	Mbale > Bushangi > Tororo	Bushangi R/S	
			Tororo T/F	Tororo
4	18 (Thur.)	Tororo > Busia > Jinja	Busia T/F	
			Jinja T/F	Jinja
5	19 (Fri.)	Jinja > Iganga > Kakira > Mwiri	Iganga T/F	
		> Jinja	Kakira T/F	
			Mwiri R/S	Jinja
6	20 (Sat.)	Jinja > Kampala		Kampala
7	21 (Sun.)	Day Off		Kampala
8	22 (Mon.)	Kampala > Mbarara		Mbarara
9	23 (Tue.)	Mbarara > Bushenyi > Mbarara >	Mbarara T/F	
		Kabale	Bushenyi T/F	Kabale
10	24 (Wed.)	Kabale > Kihumiro > Kabale	Kabale T/F	
			Kihumiro R/S	Kabale
11	25 (Thur.)	Kabale > Masaka		Masaka
12	26 (Fri.)	Masaka > Matale > Kyebe >	Matale R/S	
		Masaka	Kyebe R/S	
			Masaka T/F	Masaka
13	27 (Sat.)	Masaka > Buwama > Kampala	Buwama T/F	Kampala

Table 5-1	Field	Survey	Schedule	for	Team	3

Note:

T/F... Telephone Facility, R/S... Repeater Station

Members of the Field Survey Team 3 were as follows:

JICA Side:

Mr.Katayama (Network, 1 to 13 day) Mr.Iwami (Switching, 1 to 6 day) Mr.Okeda (Transmission, 1 to 13 day) Mr.Ohba (International, 8 to 13 day) Mr.Nishinohara (Admin., 1 to 6 day)

## UPTC Side: Mr Onyango (Switching, 1 to 13 day) Mr.Kulinga (Transmission, 1 to 13 day)

The team also made site survey at Konge R/S on 4th November, Dundu R/S and Entebbe T/H on 9th November. Mpoma Earth Station was surveyed on 27th October, and Kampala T/H was surveyed frequently through this study term.

Following pages are the result of the above survey. Contains are as follows.

- a) Summary of The Supporting Facilities at Surveyed Sites
- b) Present conditions of exchange and transmission systems
- c) Site plan and Floor layout
- Data b) and data c) are combined site by site.

Summary of the Supporting Facilities at Surveyed Sites Table 5-2

	<u></u>	LOCATION	NO NO		A A	POWER SYSIEM	ICM			BUILDING	5		LINO1	1	
Site Name		Town/	(Town/Hiltop)	Commercial Diesel Engine Generator	Diesel Enc	ine Genera	tor	Others	Present	Vacant	Expandable Structure	Structure		Existing	Additional
		Ac	Access Road Power	Power	Capacity	Mfg. Year Condition	Condition		Condition	Room	Land		Height	Height Parabolic	Antenna
		(Km)	) j		(KVA)			-			÷		(m)	Antennas	Availability
Dundu	Rep. H		1.0 Bad	Exist	1	1	-	Solar Sys.	Good	No	No	S/Support	23	6	No
Entebbe	EO			Exist	30	1991	Good		Good	No	Yes	S/Support	50	1	Yes
Konge	Rep. F	H 1.0	0 Bad	Exist			Fair		Good	No	Yes	Concrete, S/Support	48, 50	5, 6	No
Kampala	NSC T			Exist					Good	Yes	No	S/Support x 2	20, 10	3, 2	Yes
Kapchorwa	EO			Not	5		Fair	Solar Sys.	Poor	No	No	Guy	30	1	Yes
Mbale	ASC 7			Exist	125	1988	Good		Good	No	Yes	S/Support	0/2	•	Yes
Bushangi	Rep. T	υ Η Η	3.8 Bad	Exist	150		Fair		Poor	Yes	Yes	S/Support	23	2	Yes
	н Ц			Exist	15	-	Fair		Poor	No	Yes	S/Support	50	2	2 Yes
Busia	н Ш	<b>-</b>		Exist			1	No Back Up	Poor	No No	Yes	1	-		1
Iganga	н Ш			Exist	16.5		Good		Fair	No	Yes	I	 	1	
	н П П			Exist	1	1	1	Batt Only	Good	Yes	Yes		ļ	1	1
Mwiri	Rep. H	ļ	5.0 Fair	Exist	15	1973	Fair		Fair	No	°2	S/Support	20	4	No
Jinja	ASC T	 		Exist	120	1987 (*1)	Fair		Fair	No (*2)	Nö	Concrete	48	2	Yes
						- 1									
Mbarara	ASC T			Exist	22	1987 (1*)	Good		Fair	No	Yes	S/Support x 2	23, 50	, L	Yes
Bushenyi	н Ш			Exist	16.5	1991 (*1)	Good		Poor	No	No		-	1	1
Kihumiro	Rep. H		11.6 Fair	Exist	<b>P</b>	1993 (*1)	Good		Fair	No	Yes	S/Support	80	. 4	4 Yes
Kabale	GSC 1		Fair	Exist	70 X 2	70 X 2 1990 (*1)	Good	Alternately	Good	oN	Yes	Guy, S/Support	13, 50	0, 1	Yes .
Matale	Rep. ⊢	T T	1.0 Fair	Exist	16.5	16.5 1990 (*1)	Good		Good	Yes	Yes	S/Support	60	2	Yes
Kyebe	Rep. H		1.2 Bad	Not	1	1	1	Solar Sys.	Good	No.	Yes	S/Support	23	2	2 Yes
					i		-	4 Batt.				10,0	d		
Masaka	ASC				02	70 1986	0000		-ar	2	Yes	Lloddn2/2	50	4	4   Yes

NOTE:

(\*1).. Irstalled Year
(\* 2)... There are vacant space for New Switch.

(SUPPORT.WK3)

KAMPALA

HEE Sout

DF 2033 7th June, 1993.

To C/P Thro' PEE/SWP

## TRAFFIC MEASUREMENT ON E108 EXCHANGES

Find attached traffic measurements for E10B exhnages, for the months of february and May 1993. The measurements were taken on the indicated dates between 9.30 a.,. and 12.30 p.m.

Remarks

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2

3

Calling Rate on Kampala E108 650

At the time of the record there were about 9225 Subscriber connections with an avereage calling rate of 0.08 erlangs/line.

Completion/Failure Rate of Calls

Attached also are the completion and failure rates of calls for various categories. Failures due to the network are mainly attributed to cct congestion, register and line sinalling faults. This is especially so on Kampala TSU, probably because it has more connections with other exchanges.

Subscriber Connections on KLA GSC

None of the Subscriber connection Units (URA) has reached the maximum design value of about 96 erlangs. The highest recorded was about 43 erlangs. Call rejection has however been observed on URA 76. This is due to overload of some of the input sections on this URA. In particular input sections 42 and 43 have been identified as overloaded. There is need to readjust the accomodation on the above sections.

5-4

. . . . . Ssempa Bakyasenga STE/Traffic

CC. GM/EP&C PEE/SWM PTE/N&D

	ca=Qffice ls_(%)	<u>Qut_Going_</u> Calls_(%)	<u>locomico_</u> Calls_(%)
Effective	6	36	39
Failure due to Sub Dialling	87	13	13
Failure due to Sub Busy, Ringing not answered	<b>4</b>	42	43
Failure due to Network	1	9	5
TOTAL (%)	100	100	100

COMPLETION/FAILURE RATE OF CALLS ON MAKERERE E108 68C (FEB. 1993)

COMPLETION/FAILURE RATE OF CALLS ON MAKERERE E108 GSC (MAY, 1993)

	<u>ra-Office</u> ls (%)	<u>Out Going</u> Calls (%)	<u>Incoming</u> <u>Calls (%)</u>
Effective	5	30	36
Failure due to Sub Dialling	87	12	9
Failure due to Sub Busy, Ringing not answered	7	46	51
Failure due to Network	1	12	4
TOTAL (%)	100	100	100

#### MAKERERE E108 GSC EXCHANGE

Circuit Month of FEBRUARY 1993 Working<u>Traffic in Erl.</u> Route Rep.Circuits TrafficJustifie% Reject ASR 25/2 26/2 -----OKPLG 57/119 17.27 22.21 22.21 33 o 41 10.83 IKPLG 60/90 10.5 39 10.83 19 0 OKTSU 15/30 5.41 4.17 5.41 12 0 23 IKTSU 15/30 2.48 3.07 3.07 34 8 ο IOT TFC 2.03 1.97 D/G TFC I/C TFC T/T TFC 18.62 22.21 12.93 12.86 UNDEFINED TFC TOTAL THC TOTAL CALLS 2.79 3.14 36.34 39.97 39.97 1250 1161 1250

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AUTOMATIC TRAFFIC RECORDER RESULTS

## MAKERERE E10B GSC EXCHANGE

## AUTOMATIC TRAFFIC RECORDER RESULTS

Route	Circuit Working	Month of M Traffic in E		5.		Circuits Justifie		ASR
		12/5	13/5	14/5			· · · · · · · · · · · · · · · · · · ·	
OKPLG	118/119	16.31	13.12	17.59	17.59	27	0	35
IKPLO	121	11.63	12.76	13.06	13.06	22	0	38.1
OKTSU	29/30	3.74	4.29	2.69	4.29	10	Ō	20
IKTSU	- 30	3.1	2,94	3.62	3.62	9	0	31
IOT TEC		1,87	3.49	1.88	1. A			Ľ.
D/G TFC		20.21	17.8	17.88	· ·			
I/C TFC		14.9	15,49	17.62		(		
T/T TFC	1 1							
JNDEF INE	D TFC	3.21	4.03	4.03			· .	
TOTAL TF	c	38.72	40,8	43.41	43.41			
FOTAL CA	LLS	1427	1694		1694		•	

	<u>Intra-Office</u> <u>Calls (%)</u>	<u>Out Going</u> Calls (%)	<u>locoming</u> <u>Calls (%)</u>	Trans Calls (%)
Effective	25	28	40	40
Failure due to Sub Dialling	44	8	15	7
Failure due to Sub Busy, Ringing not answered	30	34	42	43
Failure due to Network	1	30	1	11
TOTAL (%)	100	100	100	100

## COMPLETION/FAILURE RATE OF CALLS ON KAMPALA E108 GSC (FEB. 1993)

## COMPLETION/FAILURE RATE OF CALLS ON KAMPALA E10B GSC (MAY, 1993)

	Intra-Office Calls (%)	<u>Out Going</u> Calls (%)	<u>Incoming</u> Calls (%)	Trans Calls (%)
Effective	22	29	39	30
Failure due to Sub Dialling	44	- <b>8</b>	13	9 9
Failure due to Sub Busy, Ringing not answered	32	36	47	50
Failure due to Network	0	27	. 1	11
TOTAL (%)	100	100	100	100

# KLA E10B **GSC** EXCHANGE

AUTOMATIC TRAFFIC RECORDER RESULTS

ioute (	Circuit Working	Traffic in		1993.	Rep. Trafiic	Circuits Justified	% of Rejec Calls	ted 🛛
KABA	24/25	2.44	6.9	•	2.66	Ð	0	32
10087	6/7	0.45	1.9° 0.30		0.45	3	0	44
KPCU	357	91 52	91.20		<b>9</b> 1.5%	108	<u>0</u> .	20
MAKS	60/90	10.41	10.28		10,41	់ ខេ	0	36
ENTH	22	6. 17	5.79		8. 17	16	Q .	43
209US	30	7.97	10.85		10.93	19	0	4)
DESE 17	÷		1.7.7.9		2. 4.	t.	. Q.	0.1
0/6	· - ,	0,72	0.7.			Ĩ		
	277	G. 225	0.1		0.00	4		
0/0		- 0 13-	$\sim 0.0$ .			[ <b>[</b>	46	÷
ER03 17	3	1. 32	10.00 B (10.00		1, 55	5	0	4
070		0	. C. C.					0
omol 17	. 4	1.5	- Su li		2.55	6	<u>.)</u>	
0/0		0.03	So 33		·		9	
DAUA II/	3.3	0.30	0.21	1 K (1987) K	0.36	3	<u>0:</u>	: 0
070 268A 17	a second s		<u>0</u>				C.	0
0/0			S 201 0			. [	0	<u>)</u>
.SR1 1/		()	<u>(</u> ]	in the second			С	0
<b>D/</b> G		1	0				73	0
1(400	71/104	7.79	0.36		7.79	15	0	32
MAKE	118	16.9	23.21		23.21	34	0	42
KPLU	2697300	67.7	74.5%		74.52	90	0	44
JINJ	23	6.5	8.03		0.03	15	0	-39
MENG	12/14	5.40	4.65		5.46	12	2	13
KYAM	16/18	0.8%	3.40		3.60	9	0	5
AMPI 1/	• 4	0.75	0.0.		1.07	5	Ğ	
0/G		0.1	0.25		<u> </u>			<u> </u>
DB33 17	1 .		·				Ú	<u>(</u>
<u>0/</u> G		0	) <u>}</u>					0
ENTR	26727	21.36	18, 46		21:56	32 *	4.3	17.3
KPLS	30	1,23	1.41		1.41	6	5	58.5
INFIC	10	0.1-	0.14		0, 14	2	0	57
N-980	_6/11	2.28	3.75		3.76	9	4.5	38.5
OT TFC			245, 45					
70 TFC	26/27	134.69	138.93					ļ
/C TFC	11		104.72				بال الشري الكاريجات ال	
RANGIT		12.34	12.14		إ			فاستكار بوراديه
NDEFINE		54, 34	53,41	<u> </u>				
UTAL TE		537 33			545.45			
UTAL CA	LLS	109.0	1.45.		16936			l

# KLA E10B GBC EXCHANGE

AUTOMATIC TRAFFIC RECORDER RESULTS

	•							
Route	Circuit	Month of	MOV 100	7	Rep.	Circuits	% of	1000 -
		fraffic in	160 1/2 [ En]		, ·	Justified		
· ·	401 K 1110	12/5	1 17/2	1472	11 at 1.xc	Duscrited	Calls	
					1			
ткава	25	2.69	3.87	2.28	3.87	10	0	35.8
OCCB1	7	1	0.97	0.21	1	5	0	24.6
OKPLU	313/354	93.72	102.3	95.45	102.3	120	0	20.6
OMAKE	90/120	11.86	13.21	12.76	13.21	22	0	37.8
TENTB	20/22	10.47	10.1	10.07	10.47	- 19	0	37
DOPUS	30	10.2	10.03	13.73	13.73	23	0	41 4
ODMBE IN	5	0.69	1.17	1 03	2.69	7	0	0.12
0/6		0.59	0.86	1.52	t			
ODSLU IK	7	2.37	2.5	3.03	3.82	8	Ú	0.37
0/6		0. 2	0.55	0.79	i i		26	0.84
00H01 1/c	3	1.14	1,28	0.72	1.17	4	0	
0/6		0.03	0	0.03	1			. 0
DOMDT IK	4	2	0.77	1.55	3.9	8	0	0.12
0/6	i teni	1.53	1.9	1.21			53	0.38
UDAUA IK	2	0	0	0	:		0	<u>, 0</u>
0/6		0	0	<u>,</u> G				U
OOLRA 16	2	0	1 1 1 1 1 1		1.1		0	Ū,
0/G		0	0	()				0
1KYAM	30	2.1	1.5/	0.86	2.1	6	0	28.5
IMENG	29/30	1.31	1.83	1.52	1.83	5	0	33.4
IDKAY IK	0/5	Ũ	0	0			0	$\overline{o}$
i 0/G		0	0	Ő		Í	0	0
GOSRI IK	1/2	0,87	0.97	U U	0.97	4	0	0.19
076		<u></u>	0.03	()			75	0
1K400	87/104	2.14	2.34	3.14	3.14	8	0	34.6
1 MAKE	118	15,24	15.45	17.38	17.38	27	0	34.8
IKPLU	299/300	76.9	77.86	83.79	83.79	100	Q	4 i
1JINJ	23	13	12.4B	11.41	13	22	0	25
OMENG	11/44	4.97	4.31	5.45	5.45	12	0	17.2
UKYAM	28730	2,59	1, 37	2,45	2.59	θ	0 -	31.4
HAMP'I IC	4	0.4/	Ó	0	0.47	3	0	
0/G	the state of the s	: (1	0.03	0				0
10080 IK		0	0	Ű			0	0
<u>0/G</u>	-	<u>t</u>	0	- O	<u> </u>			6
DENTB	26/27	20.7.5	21.87	20.67	21,87	32 *	15.6	70
IKPLS	30	0.14	0.72	0.07	0.72	4	0	77.4
ITTNBO	10	0.24	0.24	0.3	0.3	3	0	67
ONABO	. 11	4.2E	3.31	3.87	4.28	10	0	38.8
101 TFC	<u> </u>	290.04	281.07	272.21				
0/6 TFC	The second se	129.55	135.90	133.41				
LIC TFC	1	115.65	114.69	119.05	[			
UBANSI1	the second s	10.7%	11.66	14. Et.				
MODE INE	_	61	62.00	Se	1			
COLOR, TF	<u>C</u>	<u>593. 6.</u>	605.34	601 63	605.34			······
UTAL CA		19140	19119	197 5	197 (2)			

	<u>íntra-Office</u> <u>Calls (%)</u>	<u>Out Going</u> Calls (%)	<u>Incomino</u> Calls (%)	Trans Calls (%)
Effective	5	23	3	30
Failure due to Sub Dialling	45	21	49	12
Failure due to Sub Bus Ringing not answered	sy. 41	25		33
Failure due to Network	8	31	45	25
TOTAL (%)	100	100	100	100

## COMPLETION/FAILURE RATE OF CALLS ON KAMPALA E108 TSU (FEB. 1993)

## COMPLETION/FAILURE RATE OF CALLS ON KAMPALA E108 TSU (MAY. 1993)

			den de la serie		
		a-Office 5_(%)	<u>Out_Going_</u> Calls (%)	Incoming Calls (%)	Trans Calls (%)
		- 1 T	. "		141
Effective	t 1900 - A	5	28	4	28
Failure due to Sub Dialling	· · · ·	37	25	52	12
Failure due to Sub Busy. Ringing not answered		55	18		34
Failure due to Network	: .	3	29	40	26
TOTAL (%)	e al de la pa	100	100	100	100

# KLA E10B TSU EXCHANGE

# AUTOMATIC TRAFFIC RECORDER RESULTS

Route         Circuit         Month of FEBRUARY 1993.         Rep. Circuits () of Traffic Justifie; code (2372)         ASR (Calls)           OKGLI         13/15         0         0.52         0.27         Calls           OKGLI         13/15         0         0.52         0.27         Calls           OKABA         19/25         9.66         10.22         9.03         10.22         18         4         40           OKABA         19/25         9.66         10.22         9.03         10.22         18         4         40           ITORO         5         1.67         4.41         4.17         7.6         0         29           OTORO         3/5         1.54         1.97         1.81         1.97         7         28         49           IKSEE         12         4.76         4.41         4.17         4.75         0         30           IMASA         30         7.6         7.71         6.63         7.71         15         0         30           IMASA         30         3.62         4.91         4.31         4.91         10         22           OHAK         50         3.62         3.77         55 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>									
23/2         24/2         25/2         Cails           OKGLI         13/15         0         0.52         0.27         0.52         4         0         28           IGANG         6         3.57         5.47         4.44         5.47         12         0         13           OKABA         19/25         9.66         10.22         9.03         10.22         18         4         40           ITORO         5         1.67         1.72         1.76         1.77         7         28         4         40           OTORO         3/5         1.54         1.97         1.81         1.97         7         28         49           IKSEE         12         4.76         4.41         4.17         4.75         1         3         15           OKSEE         6/9         4.14         4.08         3.14         4.14         10         30         48           IMAKE         15/30         3         2.98         2.1         3         8         0         40           IMAKE         30         3.57         33.28         35.37         37.57         50         8         30           OBARI	Route	Circuit	Month of F	EBRUAR	Y 1993.	Rep.	Circuits	% of	ASR
		Working	Traffic in E	r1.		Traffic	Justifie	Rejected	7.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		-	23/2	24/2	25/2			Calls	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						·····			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	OKGL I	13/15	0	0.52	0.29	0.52		0	28
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	IGANG		3.59			5.47	12 *		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	OKABA	19/25	9.66	10.22			18	4	
IXSEE       12       4.76       4.41       4.17       4.76       11       3       15         IXSEE       6/9       4.14       4.08       3.14       4.14       10       30       48         IMASA       30       7.77       6.63       7.71       15       0       30       49         IMASE       21/22       9.9       9.67       10.05       10.05       18       0       29         OMAKE       15/30       3       2.98       2.1       3       8       0       40         IMAKE       30       0       0       0       0       0       0       29         OMAKE       15/30       3.62       4.91       4.31       4.91       11       0       22         OPDAR       3       0       0       0       0       0       0       0       0         OBUJA       8/10       37.57       33.28       35.39       37.57       50       8       30       33         OBARI       8       1.98       1.05       1.08       1.68       6       29       1         IMTYA       5       1.64       0.61       1.29	ITORO	5	1.69	1.72	1.78		_	0	29
OKSEE         6/9         4.14         4.08         3.14         4.14         10         30         48           IMASA         30         7.67         7.71         6.63         7.71         15         0         30           IMBLE         21/22         9.9         9.67         10.05         18         0         29           OMAKE         15/30         3         2.98         2.1         3         8         0         40           IMMEE         30         3.62         4.91         4.31         4.91         11         0         22           OPDAR         3         0         16         16         22         1         16         16         22         1         16         16         16         22         1         16         16         16         16         22         1	OTORO	375	1.54	1.97		1.97	7*	20	49
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	IKSEE	12	4.76	4.41	4.17	4.76			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	OKSEE	6/9	4.14	4.08	3.14	4.14	10	30	
DMAKE         15/30         3         2.98         2.1         3         8         0         40           IMAKE         30         3.62         4.91         4.31         4.91         11         0         22           QPDAR         3         0         0         0         0         0         0         22           QPDAR         4/5         2.44         2.34         2.12         2.44         7         * 57         59           QDMTYA         4/5         2.44         2.34         2.12         2.44         7         * 57         59           QDAR         6/10         37.57         33.28         35.39         37.57         50         8         30           QDARI         4/8         0.58         0.49         0.59         4         16         22         95         8         0         13           QDARI         4/8         1.51         1.068         1.688         6         2.95         2.95         8         9         31           IMTYA         5         1.64         0.61         1.29         1.64         0         57           IMACB         5/6         0.17         0.14	IMASA	30	7.67	7.71	6.63	7.71			
IMAKE30 $3.62$ $4.91$ $4.31$ $4.91$ $11$ 022OPDAR300000000OMTYA $4/5$ $2.44$ $2.34$ $2.12$ $2.44$ $7*$ $57$ $59$ ONBIT $56/60$ $37.57$ $33.28$ $35.39$ $37.57$ $50$ $B$ $30$ OBUJA $6/10$ $0.58$ $0.49$ $0.59$ $4$ $16$ $22$ ILAR $6/10$ $0.58$ $0.49$ $0.59$ $4$ $16$ $22$ IDDARI $8$ $1.89$ $1.05$ $1.08$ $1.98$ $6$ $29$ $1$ IDARI $6$ $1.89$ $1.05$ $1.08$ $1.98$ $6$ $29$ $1$ IMTYA $5$ $1.64$ $0.61$ $1.29$ $1.64$ $6$ $32$ $21$ OGANG $3/4$ $1.15$ $1.15$ $1.93$ $1.93$ $7*$ $68$ $51$ INAIR $67/70$ $24.02$ $24.47$ $21.2$ $24.47$ $35$ $0$ $33$ OBKEA $5/6$ $0.19$ $0.14$ $0.17$ $0.19$ $3$ $0$ $33$ IBKBA $6$ $0.34$ $0.86$ $0.14$ $0.86$ $4$ $0$ $59$ IMMANZ $9/11$ $1.17$ $0.63$ $0.29$ $1.17$ $6$ $32$ $26$ ITTEB $6$ $2.92$ $1.63$ $1.25$ $2.92$ $8$ $9$ $31$ IKGL $15$ $0.56$ $0.37$ $0.85$	IMBLE	21/22	9.9	9.67	10.05	10.05	18	-	29
OPDAR         3         0         0         0         0         0           OMTYA         4/5         2.44         2.34         2.12         2.44         7 *         57         59           ONBII         56/60         37.57         33.28         35.39         37.57         50         8         30           DBUJA         8/10         0.58         0.49         0.59         4         16         22           IENG         6         2.95         2.95         8         0         13           DDARI         4/8         1.68         1.08         1.08         1.68         6         29         1           IMTYA         5         1.64         0.61         1.29         1.64         6         321           OGANG         3/4         1.15         1.17         1.93         1.93         7         4         68         51           INAR         67/70         24.02         24.47         21.2         24.47         35         0         33           IEKBA         6         0.34         0.86         0.14         0.86         4         0         57           IMMANZ         9/12	OMAKE		3	2.98		-		4 7 1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	IMAKE		3.62	4.91	4.31	4.91	11		22
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	OPDAR	-	-	. 0	-	1			
DBUJA         6/10         0.58         0.49         0.59         4         16         22           IIENG         6         2.95         2.95         2.95         8         0         13           UDARI         8         1.88         1.05         1.08         1.68         6         29         1           IMTYA         5         1.64         0.61         1.29         1.64         6         3         21           OGANG         3/4         1.15         1.15         1.93         1.93         7         4         68         51           INAIR         67/70         24.02         24.47         21.2         24.47         35         0         33           UBKBA         5/6         0.19         0.14         0.17         0.19         3         0         33           IKACB         2         -         -         0         0         0         33           IMWANZ         9/11         1.17         0.63         0.29         1.17         6         32         26           ITEB         6         2.92         8         9         31         1.11         1.1         1.1         1.1							· · ·	1	
IIENG       6       2.95       2.95       8       0       13         UDARI       4/8       1.08       1.05       1.08       1.08       6       29       1         IDARI       8       1.64       0.61       1.29       1.64       6       3       21         IMTYA       5       1.64       0.61       1.29       1.64       6       3       21         UGANG       3/4       1.15       1.73       1.93       7       68       51         INAIR       67/70       24.02       24.47       21.2       24.47       35       0       33         UBBAA       5/6       0.19       0.14       0.17       0.19       3       0       57         IKACB       2			37.57						
UDARI $4/8$ 00IDARIB1.881.051.081.686291IMTYA51.640.611.291.646321UGANG3/41.151.151.931.937*6851INAIR67/7024.0224.4721.224.4735033UBKBA5/60.190.140.170.193033IBKBA60.340.860.140.864057IKACB2-642.12.852.858419IMWANZ9/122.642.12.852.928931IKGLI150.830.370.834291ITEB62.921.631.252.928931IKGLI150.830.370.834291ILISIN101.122.9306200IIBLE50.50.370.050.05217IFPT10.240.0700.24055OVFMB6/102.913.252.523.15048UFPOR7/85.886.226.076.2213*8158OMBAR13/208.979.529.349.5217625OJINJ26/34		8/10		0.58		1	-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-			2.95	2.95	- <b>8</b>		13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				· · · ·				•	
OGANG         3/4         1.15         1.15         1.93         7 *         68         51           INAIR         67/70         24.02         24.47         21.2         24.47         35         0         33           OBKBA         5/6         0.19         0.14         0.17         0.19         3         0         33           IEKBA         6         0.34         0.86         0.14         0.86         4         0         57           IKACB         2         2.64         2.1         2.85         2.85         8         4         19           IMWANZ         9/12         2.64         2.1         2.85         2.92         8         9         31           IKGLI         15         0.63         0.29         1.17         6         32         26           IITEB         6         2.92         1.63         1.25         2.92         8         9         31           IKGLI         15         0.83         0.37         0.83         4         29         1           IIJJIN         10         1.12         2.93         0         62         0         0           IKGLI <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></td<>									-
INAIR       67/70       24.02       24.47       21.2       24.47       35       0       33         0BKBA       5/6       0.19       0.14       0.17       0.19       3       0       33         IEKBA       6       0.34       0.86       0.14       0.19       3       0       33         IEKBA       6       0.34       0.86       0.14       0.96       4       0       57         IKACB       2       -       -       0       0       0       0       33         OMWANZ       9/12       2.64       2.1       2.85       2.85       9       4       19         IMWANZ       9/11       1.17       0.63       0.29       1.17       6       32       26         IITEB       6       2.92       1.63       1.25       2.92       8       9       31         IKGLI       15       0.83       0.37       0.83       4       29       1         IJJIN       10       1.12       2.93       0       622       0         IKKYA       3       0       0       0.37       0.055       0.055       2       17 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td></tr<>							1		
UBKBA         5/6         0.17         0.14         0.17         0.19         3         0         33           IEKBA         6         0.34         0.86         0.14         0.86         4         0         57           IKACB         2         0         0         14         0.86         0.14         0.86         4         0         57           IMWANZ         9/12         2.64         2.1         2.85         2.85         9         4         19           IMWANZ         9/11         1.17         0.63         0.29         1.17         6         32         26           ITTEB         6         2.92         1.63         1.25         2.92         8         9         31           IKGLI         15         0.83         0.37         0.83         4         29         1           IJJIN         10         1.12         2.93         0         62         0           IKYA         3         0         0.07         0.05         0.05         2         17           IBUJA         10         1.22         2.93         0         1         2         17         32         17         <									
IBKBA       6       0.34       0.86       0.14       0.86       4       0       57         IKACB       2       0       2.64       2.1       2.85       9       4       19         IMWANZ       9/12       2.64       2.1       2.85       9       4       19         IMWANZ       9/11       1.17       0.63       0.29       1.17       6       32       26         IITEB       6       2.92       1.63       1.25       2.92       8       9       31         IKGLI       15       0.83       0.37       0.83       4       29       1         IIJIN       10       1.12       2.93       0       622       0         IIKYA       3       0       0       0.033       0       0       0         IBUJA       10       1.12       2.93       0       0       0       0         IIFEFT       1       0.24       0.07       0       0.24       0       0       55         OVFMB       6/10       2.91       3.25       2.52       3.25       9       77       32         DMASA       16/40       7.63								-	
IKACB       2       0       0         OMWANZ       9/12       2.64       2.1       2.85       9       4       19         IMWANZ       9/11       1.17       0.63       0.29       1.17       6       32       26         IITEB       6       2.92       1.63       1.25       2.92       8       9       31         IKGLI       15       0.83       0.37       0.83       4       29       1         IJJIN       10       0.58       0.48       1.1       1.1       5       4       19         IBUJA       10       1.12       2.93       0       622       0         IKYA       3       0       0       0.003       0       0         IIBUJA       10       1.12       2.973       0       622       0         IIKYA       3       0       0       0.055       17       17         IBUJA       10       1.22       2.93       0       217       17         IFPT       1       0.24       0.07       0       0.24       0       55         OVFMB       6/10       2.91       3.25       2.52							-	-	
OMWANZ         9/12         2.64         2.1         2.85         2.85         9         4         19           IMWANZ         9/11         1.17         0.63         0.29         1.17         6         32         26           IITEB         6         2.92         1.63         1.25         2.92         8         9         31           IKGLI         15         0.83         0.37         0.83         4         29         1           IJJIN         10         0.58         0.48         1.1         1.1         5         4         19           IBUJA         10         1.12         2.93         0         62         0           IKYA         3         0         0         0.037         0.65         0.24         0           IBUJA         10         1.12         2.93         0         622         0           IKYA         3         0         0         0.053         217         622         0           IBUJA         10         1.12         2.93         0.05         0.053         217         32           OVFMB         6/10         2.91         3.25         2.52         3.25			0.34	0.86	0.14	0.86	4	1 -	59
IMWANZ         9/11         1.17         0.63         0.29         1.17         6         32         26           IITEB         6         2.92         1.63         1.25         2.92         8         9         31           IKGLI         15         0.83         0.37         0.83         4         29         1           IIJJIN         10         0.58         0.48         1.1         1.1         5         4         19           IBUJA         10         1.12         2.93         0         622         0           IIKYA         3         0         0         0.003         0         622         0           IIKYA         3         0         0         0.053         217         1         17           IBLE         5         0.5         0.37         0.05         0.05         217         1           IFPT         1         0.24         0.07         0         0.24         0         55           OVFMB         6/10         2.91         3.25         2.52         3.25         9         77         32           DMARS         11/18         6.61         7.33         7.1		-						1 - 1	
IITEB       6       2.92       1.63       1.25       2.92       8       9       31         IKGLI       15       0.83       0.37       0.83       4       29       1         IIJIN       10       0.58       0.48       1.1       1.1       5       4       19         IBUJA       10       1.12       2.93       0       62       0         IIKYA       3       0       0       0.05       0.05       217         IBUJA       10       1.12       2.93       0       0       0         IIFPT       0.24       0.07       0       0.24       0       55         OVFMB       6/10       2.91       3.25       2.52       3.25       9       77       32         ODARS       11/18       6.61       7.33       7.1       7.33       14       24       10         OMASA       36/40       7.63       4.87       6.82       7.63       15       0       48         OFPOR       7/8       5.88       6.22       6.07       6.22       13 *       81       58         OMBAR       13/20       8.97       9.52       9.34							-		
IKGLI       15       0.83       0.37       0.83       4       29       1         IIJJIN       10       0.58       0.48       1.1       1.1       5       4       19         IBUJA       10       1.12       2.93       0       62       0         IIKYA       3       0       0       0.053       0       62       0         IIKYA       3       0       0       0.053       0       0       0       0         IIBLE       5       0.5       0.37       0.05       0.05       2       17         IFPT       1       0.24       0.07       0       0.24       0       55         OVFMB       6/10       2.91       3.25       2.52       3.25       9       77       32         ODARS       11/18       6.61       7.33       7.1       7.33       14       24       10         OMASA       36/40       7.63       4.87       6.82       7.63       15       0       48         OFPOR       7/8       5.88       6.22       6.07       6.22       13       81       58         OMBAR       13/20       8.97 <td>-,- · · · · · · · - ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>	-,- · · · · · · · - ,						_		
IIJIN       10       0.58       0.48       1.1       1.1       5       4       19         IBUJA       10       1.12       2.93       0       62       0         IIKYA       3       0       0.03       0       0       0         IIBLE       5       0.5       0.37       0.05       0.05       2       17         IIFPT       1       0.24       0.07       0       0.24       0       55         OVFMB       6/10       2.91       3.25       2.52       3.25       9       77       32         ODARS       11/18       6.61       7.33       7.1       7.33       14       24       10         OMASA       36/40       7.63       4.87       6.82       7.63       15       0       48         OFPOR       7/8       5.88       6.22       6.07       6.22       13 *       81       58         OMBAR       13/20       8.97       9.52       9.34       9.52       17       6       25         OJINJ       26/34       17.57       17.22       15.93       17.57       27       5       16         OKFUS       3/5			2.92				_	· ·	
IBUJA       10       1.12       2.93       0       62       0         IIKYA       3       0       0       0.03       0       0       0         IIBLE       5       0.5       0.37       0.05       0.05       2       17         IIFPT       1       0.24       0.07       0       0.24       0       55         OVFMB       6/10       2.91       3.25       2.52       3.25       9       77       32         ODARS       11/18       6.61       7.33       7.1       7.33       14       24       10         OMASA       36/40       7.63       4.87       6.82       7.63       15       0       48         DFPOR       7/8       5.88       6.22       6.07       6.22       13       81       58         OMBAR       13/20       8.97       9.52       9.34       9.52       17       6       25         OJINJ       26/34       17.57       17.22       15.93       17.57       27       5       16         OENTE       13/15       5.22       5.79       5.79       12       1       24         OKFUS       3/									
I IKYA       3       0       0       0.03       0       0       0         I IBLE       5       0.5       0.37       0.05       0.05       2       17         I IFPT       1       0.24       0.07       0       0.24       0       55         OVFMB       6/10       2.91       3.25       2.52       3.25       9       77       32         ODARS       11/18       6.61       7.33       7.1       7.33       14       24       10         OMASA       36/40       7.63       4.87       6.82       7.63       15       0       48         DFPOR       7/B       5.88       6.22       6.07       6.22       13 *       81       58         OMBAR       13/20       8.97       9.52       9.34       9.52       17       6       25       57         OJINJ       26/34       17.57       17.22       15.93       17.57       27       5       16         OENTE       13/15       5.22       5.79       5.72       5.79       12       1       24         OKFUS       3/5       0.51       0.83       1.17       1.17       5						1.1	5		
I IBLE         5         0.5         0.37         0.05         0.05         2         17           I IFPT         1         0.24         0.07         0         0.24         0         55           OVFMB         6/10         2.91         3.25         2.52         3.25         9         77         32           ODARS         11/18         6.61         7.33         7.1         7.33         14         24         10           OMASA         36/40         7.63         4.87         6.82         7.63         15         0         48           DFPOR         7/8         5.88         6.22         6.07         6.22         13<*					-	i		1	-
IIFPT       1       0.24       0.07       0       0.24       0       55         OVFMB       6/10       2.91       3.25       2.52       3.25       9       77       32         ODARS       11/18       6.61       7.33       7.1       7.33       14       24       10         OMASA       36/40       7.63       4.87       6.82       7.63       15       0       48         DFPOR       7/B       5.88       6.22       6.07       6.22       13       81       58         OMBAR       13/20       8.97       9.52       9.34       9.52       17       6       25         OJINJ       26/34       17.57       17.22       15.93       17.57       27       5       16         OENTE       13/15       5.22       5.79       5.72       5.79       12       1       24         OKFUS       3/5       0.51       0.83       1.17       1.17       5       50       20         OKFLG       269/300       79.61       /5.51       69.63       79.61       96       0       44							1		
OVFMB         6/10         2.91         3.25         2.52         3.25         9         77         32           ODARS         11/18         6.61         7.33         7.1         7.33         14         24         10           OMASA         36/40         7.63         4.87         6.82         7.63         15         0         48           DFPOR         7/B         5.88         6.22         6.07         6.22         13         81         58           OMBAR         13/20         8.97         9.52         9.34         9.52         17         6         25           OJINJ         26/34         17.57         17.22         15.93         17.57         27         5         16           OENTE         13/15         5.22         5.79         5.72         5.79         12         1         24           OKFUS         3/5         0.51         0.83         1.17         1.17         5         50         20           OKFLG         269/300         79.61         75.51         69.63         79.61         96         0         44									
ODARS         11/18         6.61         7.33         7.1         7.33         14         24         10           OMASA         36/40         7.63         4.87         6.82         7.63         15         0         48           DFPOR         7/8         5.88         6.22         6.07         6.22         13         *         81         58           OMBAR         13/20         8.97         9.52         9.34         9.52         17         6         25           OJINJ         26/34         17.57         17.22         15.93         17.57         27         5         16           OENTE         13/15         5.22         5.79         5.72         5.79         12         1         24           OKFUS         3/5         0.51         0.83         1.17         1.17         5         50         20           OKFLG         269/300         79.61         /5.51         69.63         79.61         96         0         44		-			-			1 -	
DMASA         36/40         7.63         4.87         6.82         7.63         15         0         48           DFPOR         7/8         5.88         6.22         6.07         6.22         13         81         58           OMBAR         13/20         8.97         9.52         9.34         9.52         17         6         25           DJ INJ         26/34         17.57         17.22         15.93         17.57         27         5         16           OENTE         13/15         5.22         5.79         5.72         5.79         12         1         24           OKFUS         3/5         0.51         0.83         1.17         1.17         5         50         20           OKFLG         269/300         79.61         75.51         69.63         79.61         96         0         44									
DFPOR         7/8         5.88         6.22         6.07         6.22         13 *         81         58           OMBAR         13/20         8.97         9.52         9.34         9.52         17         6         25           DJINJ         26/34         17.57         17.22         15.93         17.57         27         5         16           OENTE         13/15         5.22         5.79         5.72         5.79         12         1         24           OKFUS         3/5         0.51         0.83         1.17         1.17         5         50         20           OKFLG         269/300         79.61         75.51         69.63         79.61         96         0         44									
OMBAR         13/20         8.97         9.52         9.34         9.52         17         6         25           DJ INJ         26/34         17.57         17.22         15.93         17.57         27         5         16           DENTE         13/15         5.22         5.79         5.72         5.79         12         1         24           DKFUS         3/5         0.51         0.83         1.17         1.17         5         50         20           DKFLG         269/300         79.61         75.51         69.63         79.61         96         0         44								1	
OJINJ         26/34         17.57         17.22         15.93         17.57         27         5         16           OENTE         13/15         5.22         5.79         5.72         5.79         12         1         24           OKFUS         3/5         0.51         0.83         1.17         1.17         5         50         20           OKFLG         269/300         79.61         75.51         69.63         79.61         96         0         44									
DENTE         13/15         5.22         5.79         5.72         5.79         12         1         24           OKFU5         3/5         0.51         0.83         1.17         1.17         5         50         20           OKFLG         269/300         79.61         75.51         69.63         79.61         96         0         44									
OKPUS         3/5         0.51         0.83         1.17         1.17         5         50         20           OKPLG         269/300         79.61         75.51         69.63         79.61         96         0         44									
OKPLG 269/300 79.61 75.51 69.63 79.61 96 0 44				6					
							-		
AVEND 1 1 1 2.75 2.04 5.2 5.2 7 0 24									
	A VEIND	<b>* * _ (</b>	6.7.3	a.04	3.4	1 3.2	7	1 × 1	e7

CLD.

			and the second		Table 1 and a second		• • • • •	
ROUTE	CC TS WORKING	TRAFFIC 23/2	784641C 24/2	TRAPPIC 2512	ANP. TRAPELC	CC TS JUSTIFIANO	% a.g Resolves can	ASR.
TAORE	7	0.44	0.13	0.03	0.44	3	0	37
IDARS	21/23	1.09	1.3	2.18	2,18	7	28	12
IMBAR	18/19	10.21	7.75	8.07	10.21	18	5	14
IKABA	22/23	1.38	0.97	1.02	1.38	6	54	:7 :
IFPOR	5/12	4 14	3.25	2.53	4.14	-10	1	:21
IJINJ	19/20	10	8.1	6.35	10	18	0	18
IKPUS	50	3.31	3.27	2.16	3.31	9	1	20
IKPLG	373/377	100.59	97.02	97.33	100.59	118	0 (	21
IENTE	11	2.76	2.21	2.36	2.76	8	o	9
OKYAM	5	3.2	3.1	3.24			100	0
OLUGA	376	2.03	1.88	2.03	2.03	7	66	65
ILUGA	6	1.97	2.35	2.36	2.36	7	<b>O</b> :	31
OMENG	6/15	6	6	6			100	0
OMBLE	10	5.03	7.53	4.54	7.53	15 *	14	34
OFNAR		0 14 15 14 <b>0</b> 1	0	0			$(x_1, \dots, x_n) \in [0, \infty]$	
IOT TH	Ċ I	0.17	0.12	0.05				1
0/6 TF	c i	0.76	0.78	0.81				
I/C TF	Ċ :	4.9	3.43	5.12				-1.
TRANSI	T TFC	167.92	160.93	156.69				· .
UNDEFT	NED TFC	5.09	4.83			1		÷ :
TOTAL	TFC	172.26	169.38	167.51	172.26			· .
TOTAL	CALLS	15173	14238	14797	15173			
		the second s	I	6	L	• · · · · · · · · · · · · · · · · · · ·	L	

#### KLA E108 TSU EXCHANGE

AUTOMATIC TRAFFIC RECORDER RESULTS ----

		j	• • • • • • • • • • • • • • • • • • •				••••••••••••••••••••••••••••••••••••••	
Route	Circuit	Month of A	AY 199	3.	Rep.	Circuits	% 01	
	Working	Traffic in E					Rejected	ASR
1. A. A.		12/5	13/5	14/5		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Calls	(%)
								- 3 65 60 140
OKGLI	14/15	0.58	1.08	1.17	1.17	5	0	48
IGANG	5/6	4.05	3.66	2.54	4.05	10 *	0	11
OKABA	21/25	7.75	9:98	8.45	9,98	18	3	39
ITORO	- <del>5</del> -	1.69	1.76	2.33	2.33	7 *	<b>o</b> ::	8
OTORO	3/5	0.85	1-17	1.55	1.55	6 *	48	445
IKSEE	12	4,29	5.24	5.1	5.24	12	3	16
OKSEE	7/9	4.78	4.37	4.63	4.78	11 *	43	38
IMASA	30	6 75	9.93	7.53	9.93	18	0	26
(MBLE	20722	10.64	9.41	9.36	10.64	19	.0	21
OMAKE	30	2.41	2.71	4.59	4,59	11	0	33
IMAKE	30	2.76	3.0	2.51	3.4	9	ò	22
OP DAR	3	0.12	0.05	0.05	0.12	2	ō j	12
UMTYA	5	4.17	4.05	4.1	4.17	10 *	44	47
ONBII	54/56	32.46	37.55	35 58	37.55	50	11	25
UBUJA	8/10	0	0.95	1.54	1.54	6	Ô	29
1 IENG	6	õ	0	6			õ	
17ADD	1/8	0.47	0.34	0.1	0.47	4	0	29
IDARI	8	50.0	0.55	0.07	0.55	4	ŏ	e. 1
IMTYA	5	1.31	1.86	1.73	1.73	6	. 0	22
CIGANG	4	1.67	2.03	1.68	2.03	7*	29	43
INAIR	68	23.66	23.61	23.63	23.64	34	27 Ü	43 34
UBKBA	4/6		0,64	0.1	0,64	4	8	46
(BKBA	5/6	0.21	0.22	0.29	0.29	3	8	-50
IKACB	2	0	0	0.03	0.27	Ŭ I	ŏ	0
OMWANZ	6/12	1,47	1.32	1.56	1.64	6	उ	25 -
IMWANZ	7/11	0,42	0.32	0.26	0.42	3	ŏ	23
LITEB	6	2.19	1.83	0.28	2.19	7	7	24
IKGLI	15	0.46	1.19	0.39	1, 19	5	23	3
TIJIN	10	0.85	0.83	0.85	0.85	4	23 .	32
IBUJA	10	0, 12	0.41	0.64	0.64	4	17	ుజ 6
(IKYA	10 6	0.12	0.41	0.64	V. 04	-1	ů.	Ö
TIBLE	5		0.05	0.03	1	Í	0	ŏ
LIFPT	1	0.1	0.05	0.03	0.24	3	0	28
OVEMB	6/10	0.05			3,45	9	· · · · · · · · · · · · · · · · · · ·	
		1.75	3.45	2.93			74	16
ODARS OBACO	15/18	5.59	4.41	5.98	5.98	13	9	
OMASA	38740	6.47	12.1	8.05	8,87	16	0	41
OFPOR	7/8	5,88	5.69	6.02	6.02	13 *	82	57
OMBAR	14/20	8,86	9.41	8.56	9.41	17	2	31
UJINJ	25734		20.73	19.93	20.73	31	4	17
OENTE	15	7.36	8.98	7.67	6, 98	17	4	27
05605	375	0.52	1.44	1.1	1.44	6	62	4
(IKPLG	2997300		77 25	81.93	81.93	<b>7</b> 8	0 I	42
1 VEIMB	11	2.87	1.195	3 22	3.22	9		27
TOOR.	217	()	0	0	ļ	ł	• • •	
						1	1	
			J		1	1	ļ	
	•	•						

Route	CC TS	TRAFFIC	TRAFFIC	TRAPPIC	2.00	COTS	% of chus	ASR
	WORKING.	15/2	12/5	1415	TRAFFIC	JULIFIED	Lejacisd	(%)
LAORE	2/7	0	0.1	0			10	
IDARS	21/23	1.63	1.44	1.51	1.63	6	6	19
IMBAR	19		8.21	8.31	8.51	16	14	26
IKABA	22/23	0.95	1.62	1.27	1.62	6	37	11
TEPOR	11/12	2.88	2.81	3.38	3.38	9	1	25
IJINJ	19/20	7.19	5.35	6.79	7.19	14	1	20
IKPU5	50	0.78	3.88	1.98	3.88	10	0	11
IKFLG	374/377	95.98	106.46	106.05	106.46	124	0	21
TENTE	11	2.38	2.76	2.31	2.76	8	0	21
OKYAM	10	0.22	0.37	0.24	0.37	3	0	18
OLUGA	315	2.22	1.44	2.08	2.22	7	42	44
ILUGA	6	2.37	2.06	4.64	4.64	11 ×	0	28
OMENG	9/15	3.68	3.74	7.69	5.03	11	° ⇒ŏ	25
OMBLE	9/10	2.79	7.63	5.53	7.63	18 ÷	30	36
(KYAM	4	· · · O	o i	0		:		
OPNAR	÷ 4	0	O O	0		1. A.		
IOT TF	na i i i i i i i i i i i i i i i i i i i	0.05	0.02	0.22				- 1 - 1
O/G TFO	2	0.92	1.22	1.31				
I/C TE	C i	4.78	3.66	5.79				
TRANSI	T TFC	156.86	173.24	177.36			1 1 1	
UNDEFTI	VED TEC	4.53	4.78	3.88				
TOTAL.	rfC	166.66	182.9	187.12	187.12			
TOTAL	CALLS	14895	14459	13415	14895			

Station Name Kampala 1/3	Survey Date 8/Dec./93
Link Name Kanpala - Enterble,	Function   Terminal / Repeater
Link Name   Kampala - Enterbe, TR System   Radio (Micro) UHF, VHF, HF), O	
Equipment	Details:
System Type: HG -2	aboch, 2+1 sys
Manufact. Year: 1983 (Installed)	
Manufacturer: Telettra	
MUX Equipment	Details:
System Type:	
Manufac. Year. (983 (Installed)	354 - 180 CH Equipped
Manufacturer : Telettra	
Other Equipment	
•	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Link Name   Kanpala-Masaka-Mbarara	Function Terminal /Repeater.
TR System Radio (Micro) UHF, VHF, HF), O	
Equipment	Details:
System Type:	
Manufact. Year:	
Manufacturer:	
	Details:
MUX Equipment	
System Type:	11s4=660cH Equipped.
Manufact Year: 1984(Installed)	
Manufacturer: Telettra	
Other Equipment	•
na an a	
Link Name Kampala - Jinja - Nairobi	Function Terminal / Repeater
	WC, OW Analog / Digital Coaxial (buvie
Equipment	Details:
System Type:	960CH, Itlsys
Manufact. Year:	
Manufacturer: Rulitsu	
MUX Equipment	Details:
System Type:	125G=)20CH Equipped.
	12 3G = 120CH Equippen.
Manufact. Year:	
Manufact. Year: Manufacturer:	
Manufact. Year:	
Manufact. Year: Manufacturer:	
Manufact. Year: Manufacturer:	
Manufact. Year: Manufacturer: Other Equipment	
Manufact. Year: Manufacturer: Other Equipment Link Name   KLA - FPL - MBE - KSE	Function   Terminal / <del>Repeater</del> WC, OW Analog / <del>Digital</del> 400 MHz

 TR System [Radio(Micro(UHF, VHF, HF), OWC, OW Analog / Digital: 400 MH2

 Equipment

 System Type:

 System Type:

 Manufact. Year:

 Nec.

 MUX Equipment

 System Type:

 Manufact. Year:

 NUX Equipment

 System Type:

 Manufact. Year:

 Manufact. Year:

 Manufact. Year:

 Manufacturer:

 Other Equipment

(TR\_FORM1.WK3)

# Present Conditions of Transmission System Station Name Kampala 2/3

Survey Date

8/ Dec. 193

Link Name	KLA - MOT - GLU	Functio	n Terminal /Rep	oater-
TR System	Radio(Micro(UHF)VI	HF, HF), OWC, OW	Analog / Digital	400MH2
Equipment	the second s	Details:		and the second
System Type:	TR4FM24	21111 14	1 ttsys	
Manufact Year	r: 1987	Liferi	5 (((>YS	1
Manufacturer:	NEC			
<b>MUX Equipme</b>	ent	Details:		
System Type:				
Manufac, Year,				e de la defensione
Manufacturer :	й.			
Other Equipm	ient		and and a second se	
• • •				

	Kampala - Mpoma		Function	Terminal / Re	Decter-
	dio Micro UHF, VHF, I	HF), OW(	C, OW	Analog /-Digital-	64/L H2
Equipment			Details:		
System Type:			960 CH,	1+1 54	
Manufact. Year:	1980 (Installed)	<u>.</u>			
Manufacturer:	hec		1.00		
<b>MUX Equipmen</b>	t		Details:		
System Type:				240ch Equipped	
Manufact. Year:				- coch cquipped	
Manufacturer:					
Other Equipment	nt	·			

Link Name	Kampala - Mp	<i>sigi</i>	Function	Terminal / <del>Rep</del>	enter-
TR System	Radio(Micro, Uh	IF, VHF, HF ),	OWC) OW	Analog / Digital-	· · · · ·
Equipment			Details:		
System Type:					
Manufact, Yea	r:				· · · · · · · · · · · · · · · · · · ·
Manufacturer:					
<b>MUX Equipm</b>	ent		Details:		
System Type:	PST 3L		12.CH		
Manufact, Yea	r:			:	
Manufacturer:					and the second second
Other Equips	nent	······			

Link Name KBO MUX	Function Terminal / Repeater
TR System Radio(Micro, UHF, VHF, HF), O	WC, OW Analog / Digital
Equipment	Details:
System Type:	
Manufact. Year:	
Manufacturer:	
MUX Equipment	Details:
System Type:	15 SG (KBL, DAR, MBA, KGL, BKB, MWZ)
Manufact. Year:	addition to original 9 sq link of
Manufacturer:	KLA-MSA-MBA
Other Equipment	

(TR\_FORM1.WK3)

5-16

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# Present Conditions of Transmission System

Station Name Kampala	<sup>3</sup> / <sub>3</sub> Sur	e B	1 Dec./93	007-**5#-109cm
			and the second	

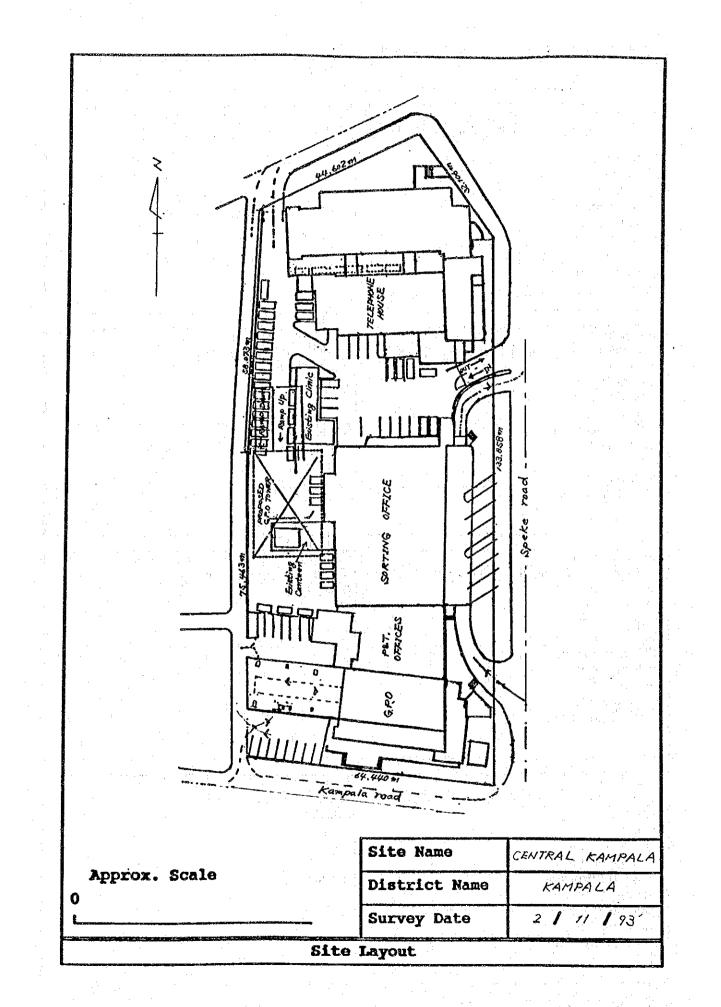
Link Name Digital Cable Link within Kampa	la Function Terminal / Repeater
TR System Radio(Micro, UHF, VHF, HF),	OWC, OW- Analog / Digital Fots/Coax
Equipment	Detalls:
System Type:	FOTS 140M - Kyambogo (2+1)
Manufact, Year: 1993 (1-stalled)	(Eyambogo - Mpoma (1+1)
Manufacturer: Finilitsu	- Makevere (1+1)
MUX Equipment	Detalls: - Mango ((+1)
System Type: Manufac. Year. 1993(Installed) Manufacturer: Fuiltsu	Pen coax _ Mukono, _ Kamenpe, - Lubowa - Mubuya, - Nsambya

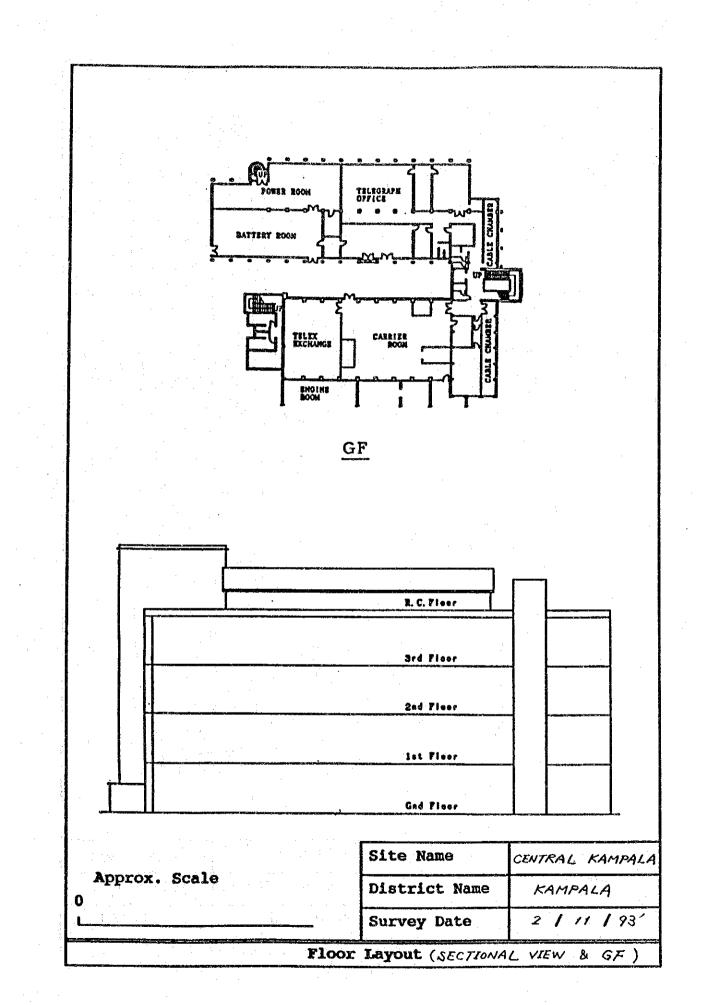
Outside Plant Rehabilitation Project

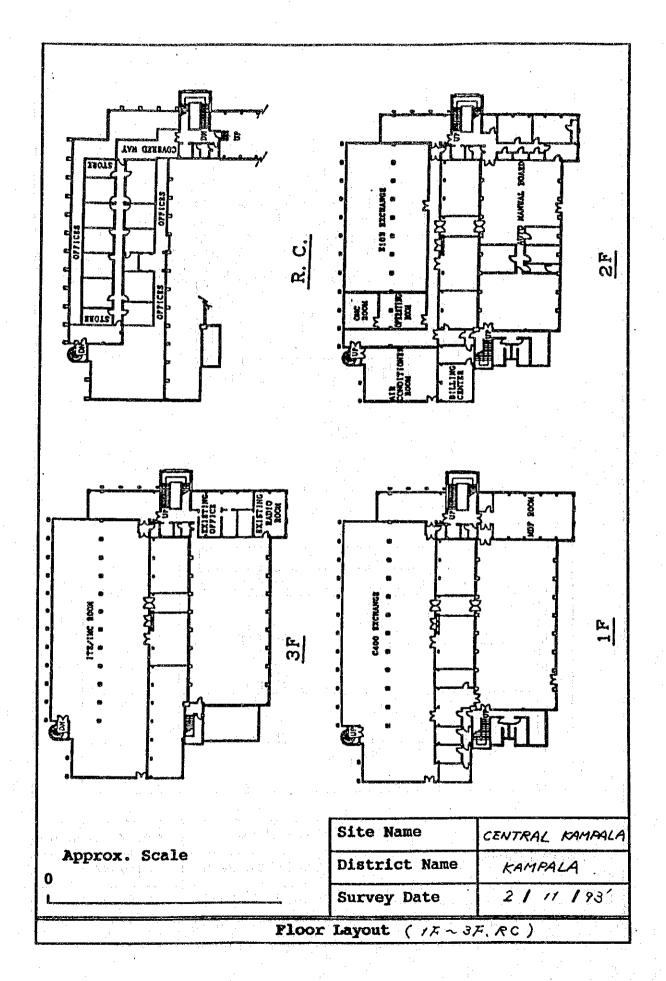
Link Name			Functio	n T	erminal / Repeater	
TR System	Radio(Micro,	UHF, VHF, H	IF), OWC, OW	Analog	/ Digital	
Equipment			Details:			
System Type:				an an d		
Manufact, Yea	ir:	· · ·				
Manufacturer:		· · ·	1. 1.			
MUX Equipm	ent		Details:	••••••••••••••••••••••••••••••••••••••		
System Type:						
Manufact. Yea	r:	N				
Manufacturer:		e e e e e e e e e e e e e e e e e e e		· ·		,
Other Equipr	nent	:				
• •						

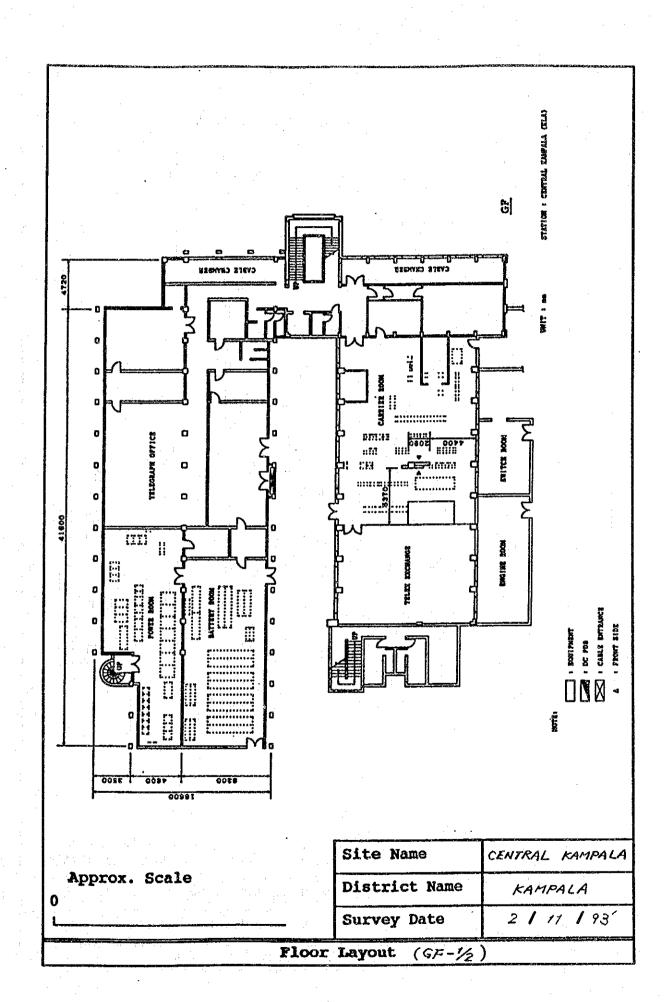
Link Name		Functio	n .	Terminal / Repeater	
TR System	Radio(Micro, UHF, VHF, HI	F), OWC, OW	Ana	og / Digital	
Equipment		Details:		· · · · · · · · · · · · · · · · · · ·	
System Type:					
Manufact, Year	· · · · · · · · · · · · · · · · · · ·				
Manufacturer:					
MUX Equipme	ent	Details:			
System Type:					
Manufact, Year	•	1			
Manufacturer:			:	1	
Other Equipm	ient				
•••					

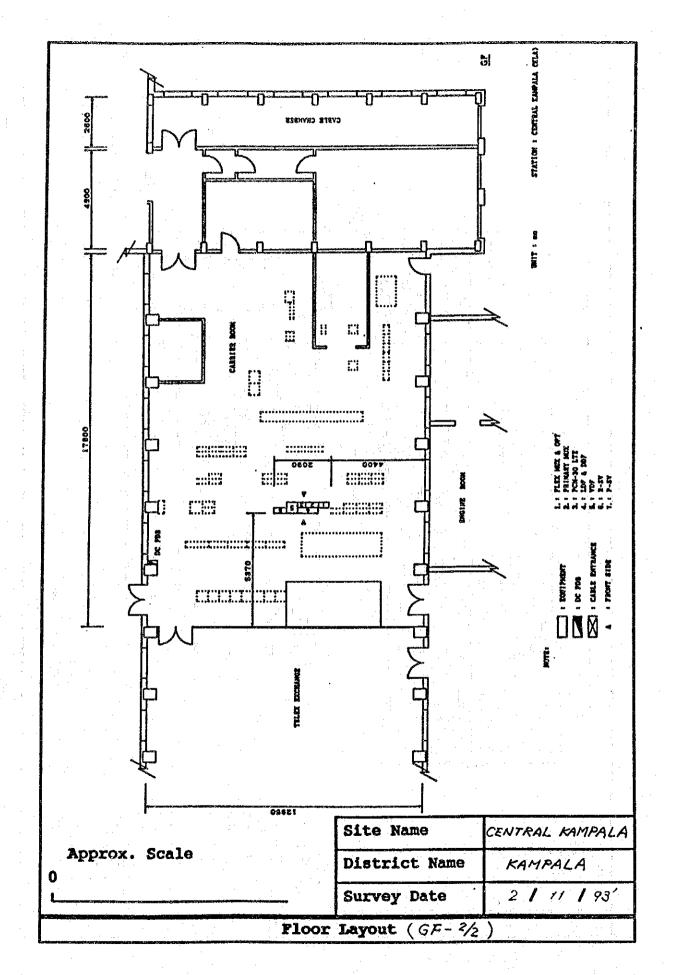
Link Name		Function	Terminal / Repeater	
TR System	Radio(Micro, UHF, VHF, HF), OV	VC, OW An	alog / Digital	
Equipment	· · · · · · · · · · · · · · · · · · ·	Details:		
System Type:				
Manufact. Yea		1		
Manufacturer:				
<b>MUX Equipm</b>	ient	Details:		
System Type:				
Manufact. Yea	ar:			
Manufacturer:				
Other Equip	ment			
	<sup>1</sup> - Stell Steller − Steller († 1990) Steller − Steller († 1990)			

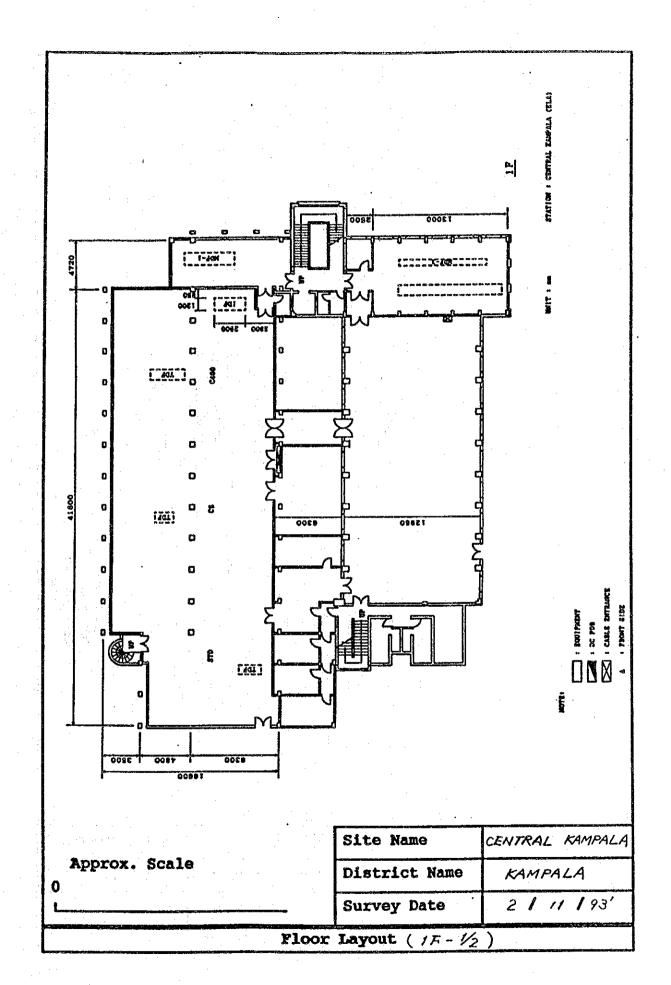


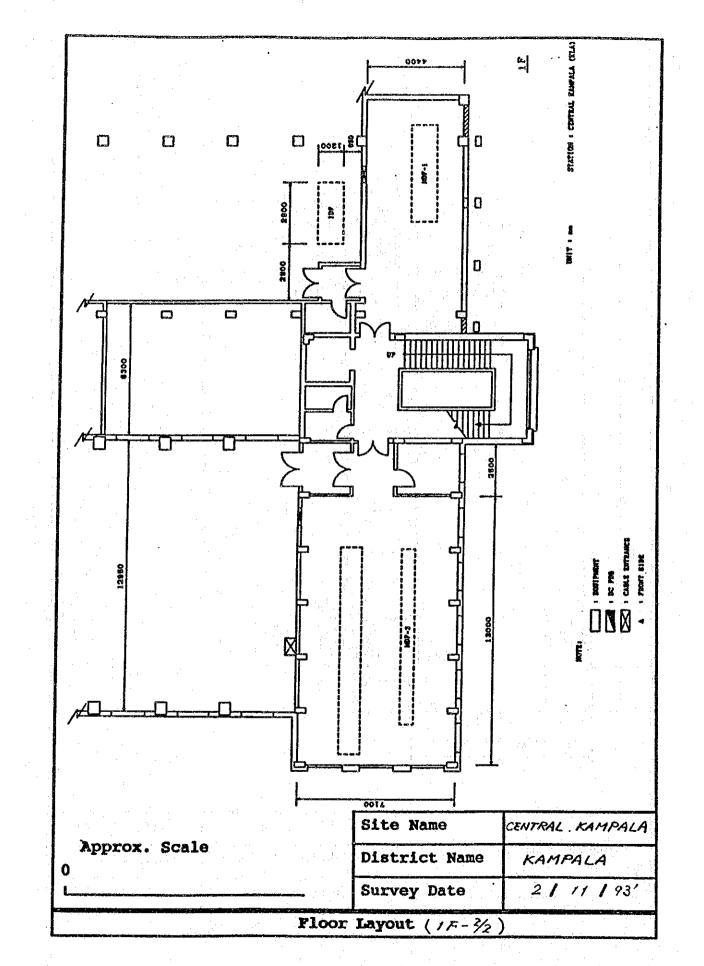


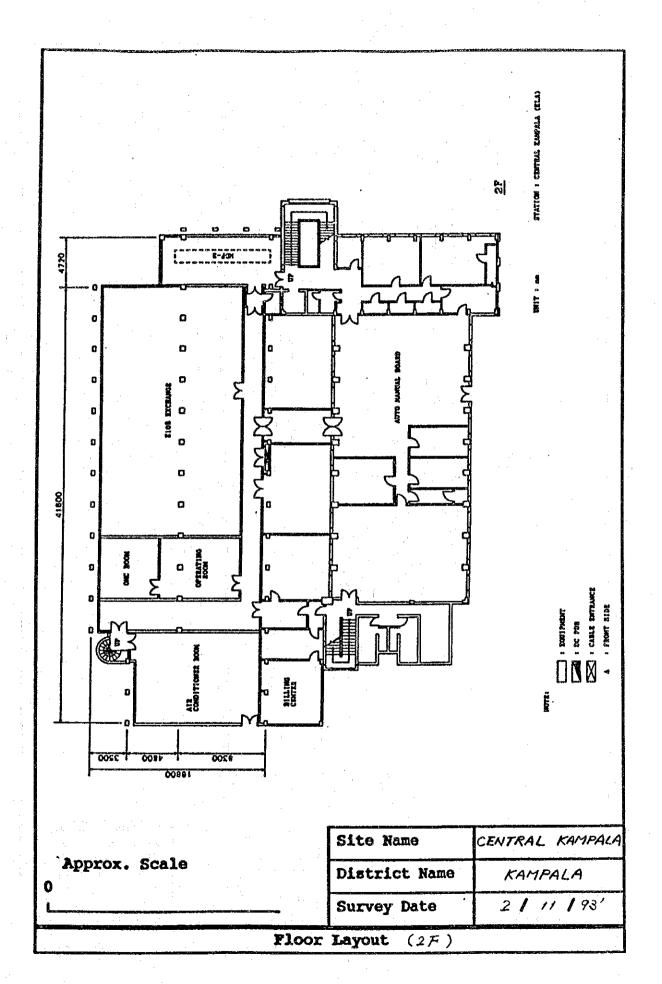


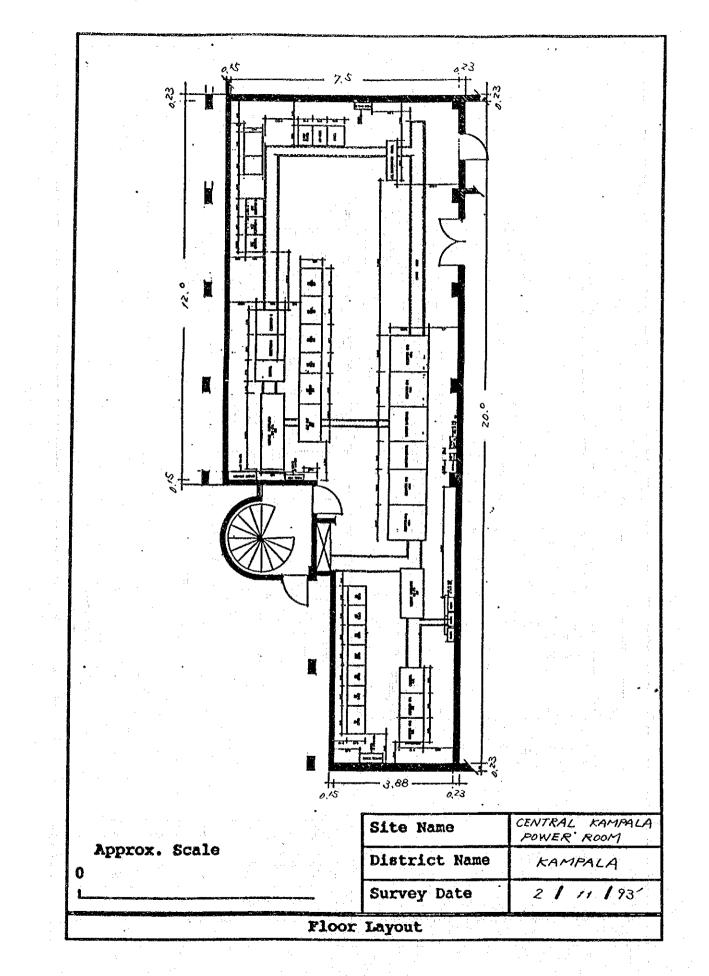


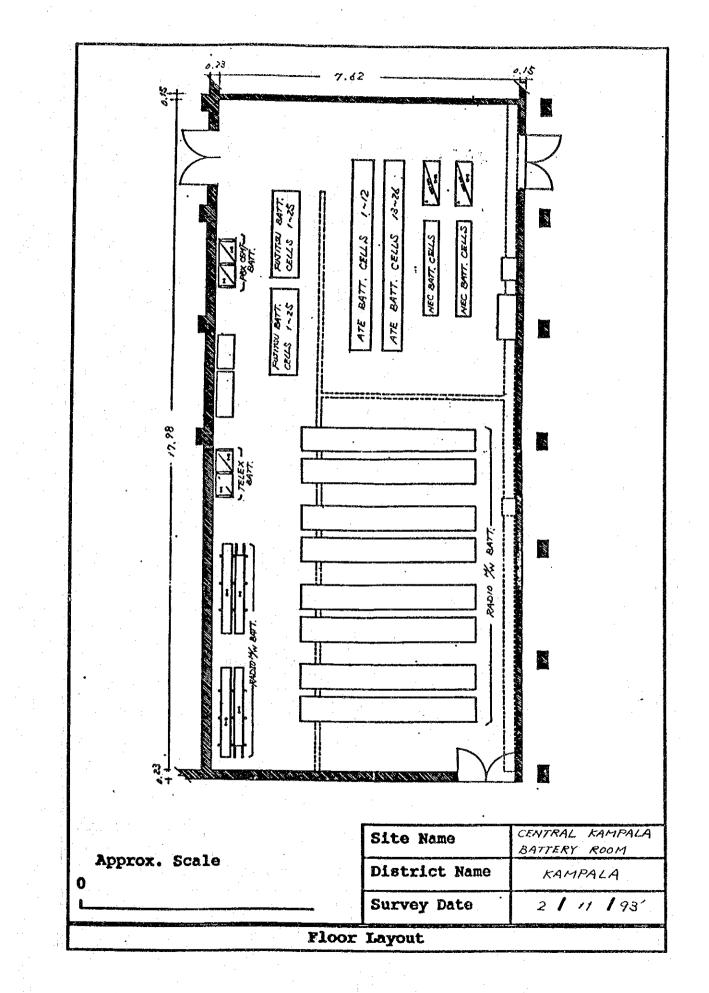


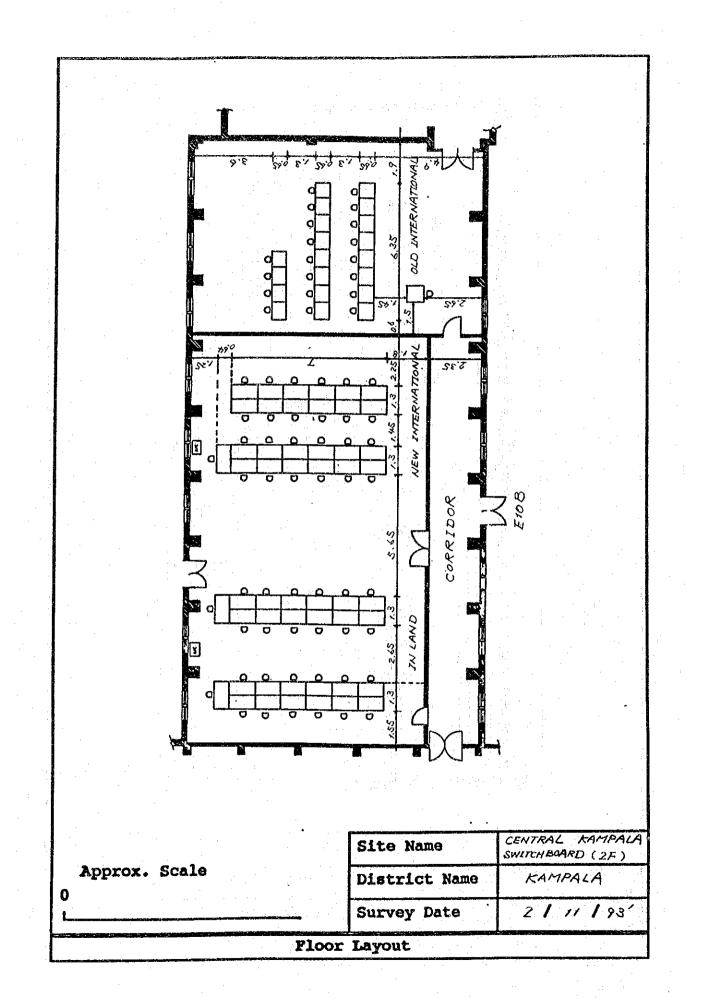


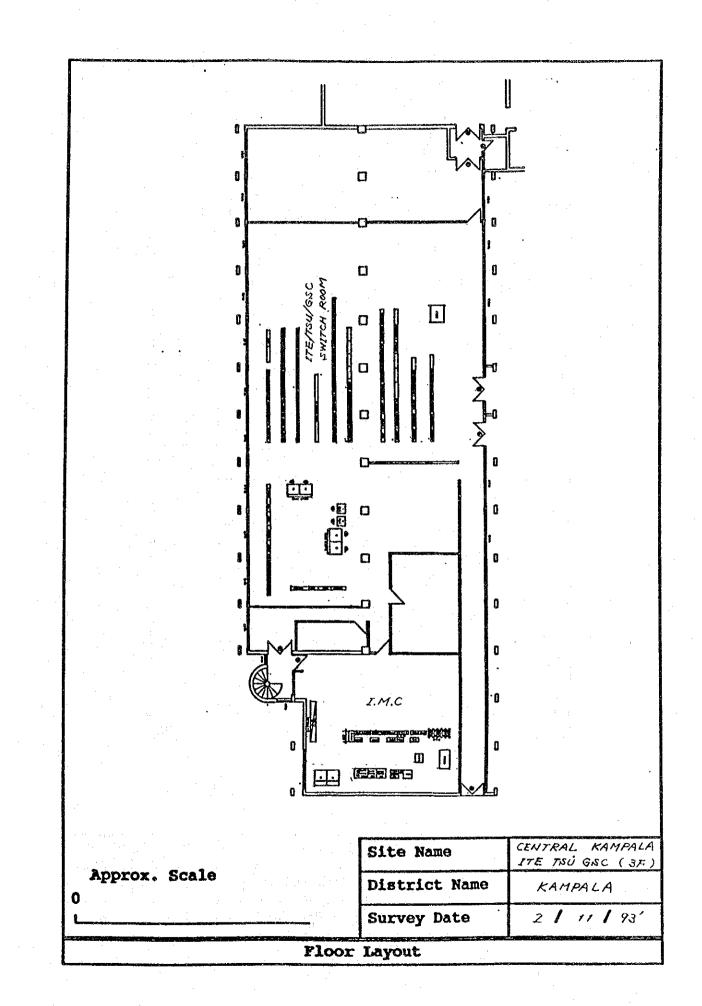


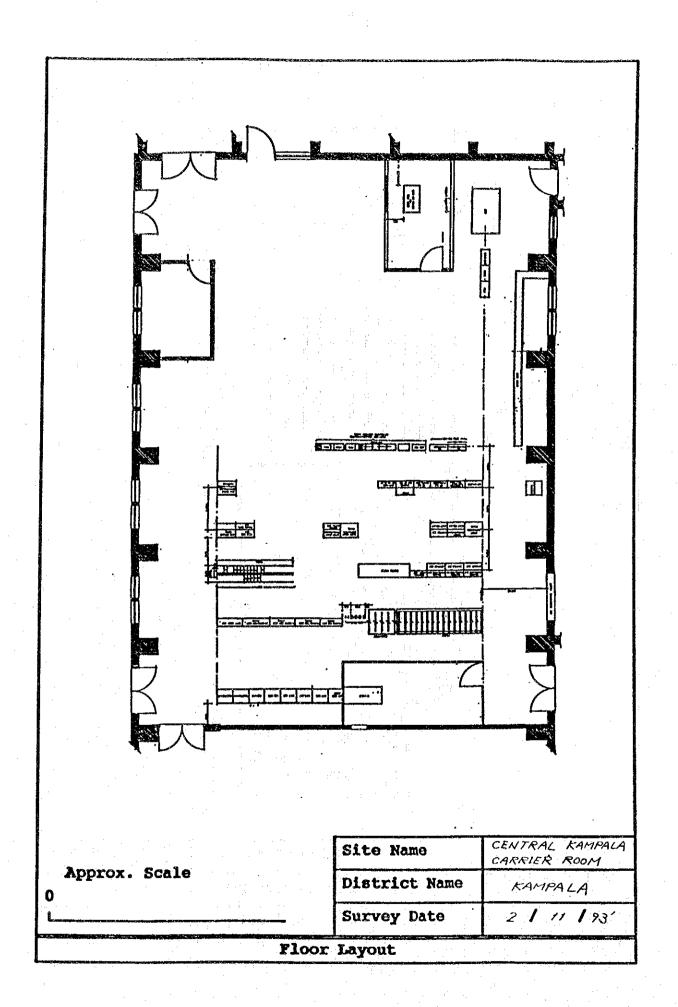












FORM-F

			ENTEBBE	
	Pres	ent Conditions of :	Manual Exchange	
			Attendant (Exchang	re Side)
Dates	9 NOV	1993	V MUL MUKASA SS	SEMAI INITI
	Name: ENTER		OIVISIONAL TEL DAN SEBAGGACA	ECOMMS OFFICER)
	AVGALIU A	and the second se	(ASSISTANT EN	
1. Su	bscribers	No.of Connected	No.of Waiting	Expected Demand
		Subscribers	Applicant	after 5 Years
	Government use:		Contracting and the second state of the second state of the	
	Business use:			
	Resident use:	· · · ·		
	Total:	1050	60	
•		· · ·	Caller and the second	Exclusion in the Alexandron Sector and Alexandron Sector in the Alexandron Sector in the Alexandron Sector in th
2. Ca	11 Traffic (Mr. SSEA	1PA clecking Itam	in UPTC)	Trunk calls
· ·	and a second	Local Calls	Trunk Calls	in same GSC
	No.of calls/month	calls	calls	
	Holding time	min.	min.	· · · · · · · · · · · · · · · · · · ·
3. Fa	cilities	. :		
	Switch board	Type C400 X-BAR	Gunmon Batt / Mag	meto
. •	н н	Capacity		ines
	,	Manufacturer	HITACHI JAPA	
*		Manufact. year	1975 (Installed ye	
	•			
			(Route-1)	(Route-2)
	Trunk lines	Destination	·	
		Type of lines	OW/OWC/Cable	OW/OWC/Cable
		2GHZ BAND	UHF/Microwave	UHF/Microwaye
		Signalling	Automat/Manual	Automat/Manual
		No.of channels	Cap. 960CH (Working 113CH)	and come cyrinitial
,		Manufacturer	TELLETRA	
	e de la companya de l La companya de la comp	Manufact. year	Installed 1983	
	Engine generator	Capacity	<u>30 kva</u>	
۰ ۱	INTEX	Manufact. year	1990~1991 ? - Hr.C	sempa Clicking Item
		Jamesuruce Jear		require incruing them
	Model (HL4/LSA 42M3) 415/240V 3plase 4 Wire			· · · ·
	Model(VIL4/ISA 42173) 415/240V 3plase 4 wire Sonz ISOORPM LOCAL CABLES	J	w <u>4800 pairs</u> (80	10P/1V × 6V= 4800P)
	415/240V 3plase 4 Wire SONE ISOORPM	J		0 <sup>P</sup> /1V x 6 V = 4800 <sup>P</sup> )
	415/240V 3plase 4 Wire SONE ISOORPM	Total pairs Nev	w <u>4800 pairs</u> (80	0° <sup>P</sup> /1V × 6 V = 4800 <sup>P</sup> )
	415/240V 3plase 4 Wire SONE ISOORPM	Total pairs Nev	w <u>4800 pairs</u> (80	00 <sup>P</sup> /1V x 6 V = 4.800 <sup>P</sup> )
mund	415/240V 3plase 4 wire Song isoo RPM Local cables	Total pairs Nev	w <u>4800 pairs</u> (80	00 <sup>9</sup> /1V × 6 V = 4800 <sup>P</sup> )
	415/740V 3plase 4 wire Solie 1500 RPM Local cables • of Staff	Total pairs New Usable pairs	w <u>4800 pairs</u> (80 <u>4800 pairs</u>	00 <sup>P</sup> /1V × 6V= 4800 <sup>P</sup> )
	<ul> <li>405/240V 3plase 4 wire Solf 1500 RPM</li> <li>Local cables</li> <li>of Staff</li> <li>Post master:</li> </ul>	Total pairs //ev Usable pairs	w <u> 4800 pairs</u> (80 <u>4800 pairs</u> me: Night	
	<ul> <li>405/7460V 3plase 4 wire Song isooRPM</li> <li>Local cables</li> <li>of Staff</li> <li>Post master:</li> <li>Tel. operator:</li> </ul>	Total pairs //ev Usable pairs Day ti Switc. 	w <u>4800 pairs</u> (80 <u>4800 pairs</u> Me: <u>Night</u> hing 2 mission 3	
	<ul> <li>4. of Staff</li> <li>Post master:</li> <li>Tel. operator:</li> <li>Tel. maintenance:</li> </ul>	Total pairs //ev Usable pairs Day ti Switc  	w <u>4800 pairs</u> (80 <u>4800 pairs</u> <u>Me:</u> <u>Night</u> hing 2 miasion 3 Cable 5	
4. No	<ul> <li>4. of Staff</li> <li>Post master:</li> <li>Tel. operator:</li> <li>Tel. maintenance:</li> </ul>	Total pairs //ev Usable pairs Day til Sw/tc.  	M <u>4800 pairs</u> (80 <u>4800 pairs</u> Me: <u>Night</u> hing 2 mission 3 Cable 5 Maintenance 7	
<b>4.</b> No	<ul> <li>4. S/240V 3plase 4 wire Solf 1500 RPM</li> <li>Local cables</li> <li>of Staff</li> <li>Post master:</li> <li>Tel. operator:</li> <li>Tel. maintenance:</li> <li>Postal services:</li> <li>oblems</li> </ul>	Total pairs //ev Usable pairs Day ti Day ti Switc.  Jocal 	w <u>4800 pairs</u> (80 <u>4800 pairs</u> <u>Me:</u> <u>Night</u> hing 2 miasion 3 Cable 5	
<b>4-</b> No	<ul> <li>ws/ruov splase 4 wire Sonr rsoorPM</li> <li>Local cables</li> <li>of Staff</li> <li>Post master: Tel. operator: Tel. maintenance: Postal services:</li> <li>oblems</li> <li>Reasons of waiting</li> </ul>	Total pairs //ev Usable pairs Day ti Switc.   	w <u>4800 pairs</u> (80 <u>4800 pairs</u> me: <u>Night</u> hing 2 mission 3 Cable 5 Maintenance 7 t Stuff 8	
<b>4.</b> No	<ul> <li>4. S/240V 3plase 4 wire Solf 1500 RPM</li> <li>Local cables</li> <li>of Staff</li> <li>Post master:</li> <li>Tel. operator:</li> <li>Tel. maintenance:</li> <li>Postal services:</li> <li>oblems</li> </ul>	Total pairs //ev Usable pairs Day ti Switc.   	w <u>4800 pairs</u> (80 <u>4800 pairs</u> me: <u>Night</u> hing 2 mission 3 Cable 5 Maintenance 7 t stuff 8 Attendant	time:
<b>4-</b> No	<ul> <li>405/2400 3,06ase 4 wire Sonr 1500 RPM</li> <li>Local cables</li> <li>of Staff</li> <li>Post master: Tel. operator: Tel. maintenance: Postal services:</li> <li>oblems</li> <li>Reasons of waiting Exchange is find</li> </ul>	Total pairs //ev Usable pairs Day ti Switc.   	M <u>4800 pairs</u> (80 <u>4800 pairs</u> <u>4800 pairs</u> <u>4800 pairs</u> Night <i>hing</i> 2 mission 3 Cable 5 Maintenance 7 t stuff 8 Attendant UPTC side: Mr.Ko	linga (Transmission)
<b>4-</b> No	<ul> <li>4. of Staff</li> <li>Post master:</li> <li>Tel. operator:</li> <li>Tel. maintenance:</li> <li>Postal services:</li> <li>oblems</li> <li>Reasons of waiting</li> <li>Exchange is for</li> <li>Other problems:</li> </ul>	Total pairs //ev Usable pairs Day ti Switc.   	M <u>4800 pairs</u> (80 <u>4800 pairs</u> Maintenance 7 t Stuff 8 Attendant UPTC side: Mr. Ku Mr. Ss	linga (Transmission) sempa (Switching)
<b>4-</b> No	<ul> <li>4. Staff</li> <li>Post master:</li> <li>Tel. operator:</li> <li>Tel. maintenance:</li> <li>Postal services:</li> <li>oblems</li> <li>Reasons of waiting</li> <li>Exchange is for</li> <li>Other problems:</li> <li>Transportation</li> </ul>	Total pairs New Usable pairs Day ti Day ti Switc Transw Local subs. 	M <u>4800 pairs</u> (80 <u>4800 pairs</u> <u>Maintenance</u> Maintenance t Stuff 8 Attendant UPTC side: Mr. Ku Mr. Sa Mr. C.	time: 
<b>4-</b> No	<ul> <li>WS /240V 3 plase 4 whe Sour ison RPM</li> <li>Local cables</li> <li>of Staff</li> <li>Post master: Tel. operator: Tel. maintenance: Postal services:</li> <li>oblems</li> <li>Reasons of waiting Exchange is for</li> <li>Other problems: Transportation Building</li> </ul>	Total pairs New Usable pairs Day ti Day ti Switc Transw Local subs. 	M <u>4800 pairs</u> (80 <u>4800 pairs</u> <u>4800 pairs</u> <u>4800 pairs</u> Might hing 2 mission 3 Cable 5 Maintenance 7 t stuff 8 Attendant UPTC side: Mr. Ku Mr. C. JICA side: A. m.	linga (Transmission) sempa (Switching) 8. Sekamanje (Radio) 1441
<b>4-</b> No	<ul> <li>4. Staff</li> <li>Post master:</li> <li>Tel. operator:</li> <li>Tel. maintenance:</li> <li>Postal services:</li> <li>oblems</li> <li>Reasons of waiting</li> <li>Exchange is for</li> <li>Other problems:</li> <li>Transportation</li> </ul>	Total pairs New Usable pairs Day ti Day ti Switc Transw Local subs. 	M <u>4800 pairs</u> (80 <u>4800 pairs</u> <u>4800 pairs</u> <u>4800 pairs</u> Might hing 2 mission 3 Cable 5 Maintenance 7 t stuff 8 Attendant UPTC side: Mr. Ku Mr. C. JICA side: A. m.	linga (Transmission) sempa (Switching) 8. Sekamanje (Radio) AHI TATAMA

Present Conditions of Transmission System

l Station			Survey	
	<b>**</b> • • •			<u>^</u>
	t wtekhe	· · · · ·		<u>ч</u>
INAME	Entebbe		Survey Date	

9/Nov.193

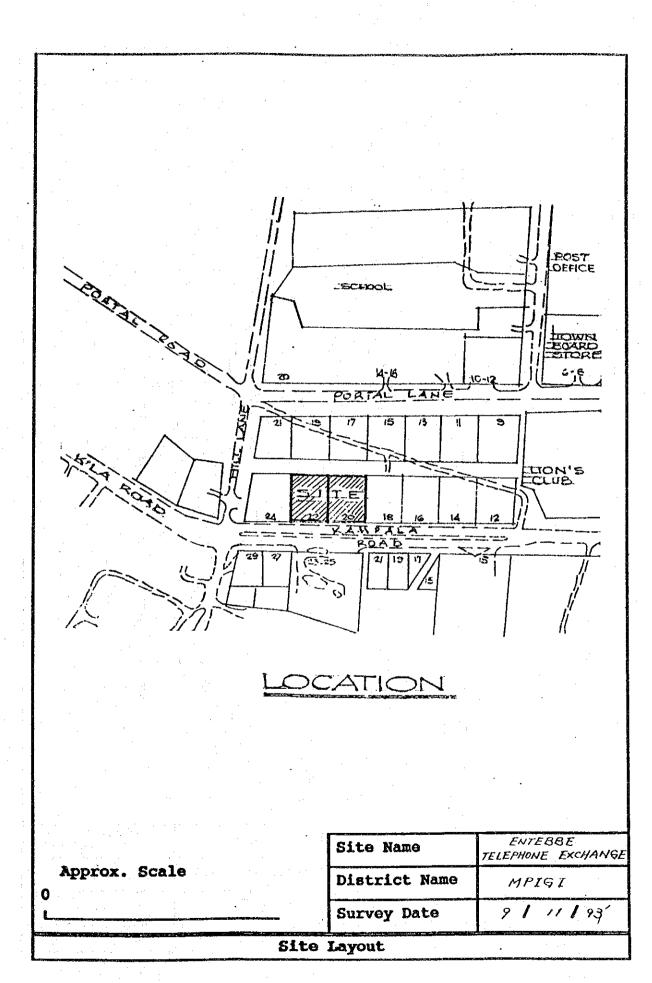
Link Name	Kampala - Entebbe	Functio	on Term	inal / Bep	eator.
TR System	Radio (Micro) UHF, VHF, HF), OV	VC, OW	(Analog) D	Digital	2.442
Equipment	Real Property of the Contract	Details:	and the second		
System Type:		960	CH SYS. 1-	t I	
Manufact, Yea	ar: 1983 (Installed)				
Manufacturer:					
<b>MUX Equipm</b>	ent	Details:	•		u, fu
System Type	:	354			
Manufac, Yea		136.	- 156 CH pre	paved (1	13 cH in use 43 cH fault
Manufacturer				' <u>(</u>	43ch fault
Other Equipr	nent				

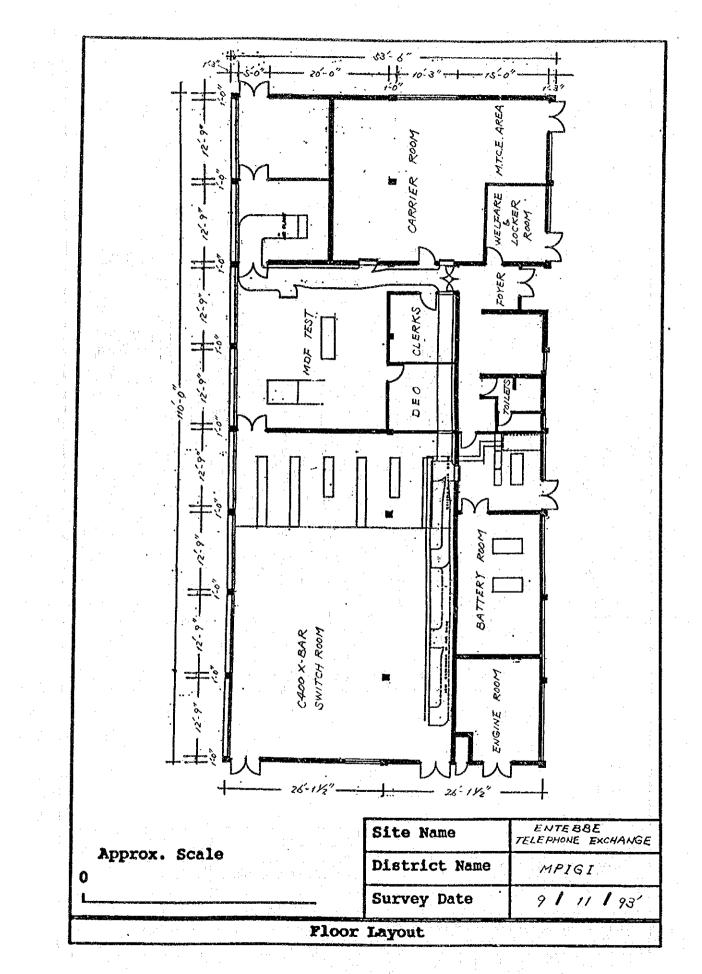
Link Name		Function		Terminal /	Repeater	
TR System Radio(Micro	, UHF, VHF, HF), OV	VC, OW	Analo	g / Digitai		
Equipment	· .	Details:				
System Type:	•			•		
Manufact, Year:						: .
Manufacturer:			5. 	·.		
MUX Equipment		Details:				
System Type:						
Manufact. Year:			•	· .		1
Manufacturer:		]	·			
Other Equipment						دم.
•••	•			1		

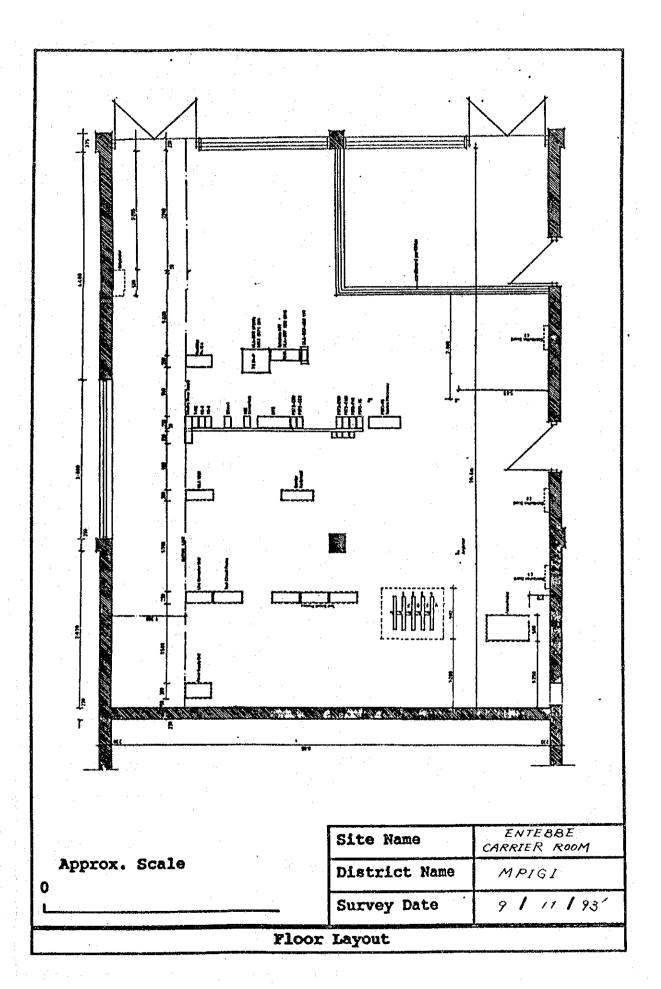
Link Name				Function	Ter	minal /	Repeater		
TR System	Radio( Micro,	UHF, VHF,	HF), OW	C, OW	Analog /	Digital			÷
Equipment			· .	Details:					
System Type:	· · · · ·								
Manufact, Year:	•			a design and the				· ·	
Manufacturer:	· · · ·					•			•
<b>MUX Equipme</b>	Int			Details:				N 8	
System Type:		i ta se te			1997) 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		· ·		
Manufact. Year:									
Manufacturer:									
<b>Other Equipm</b>	ent								
				1 1					

Link Name				Function	Terminal / Rep	eater
TR System	Radio(Micro,	UHF, VHF,	HF), OW	IC, OW	Analog / Digital	
Equipment				Details:		
System Type:					and the second	· · · · ·
Manufact. Yes	u::					
Manufacturer:		-				
<b>MUX Equipm</b>	ent .			Details:		
System Type:	• •					
Manufact Yea	ur:	1	•	. ·		
Manufacturer:						
Other Equips	nent			•		
			·. ·			

(TR\_FORM1.WK3)







Present Conditions of Transmission System	
Station Name Konge Rep. 1/2	Survey Date 4/Nov./93
Link Name Kampala - Masaka - Mbarara	Function -Terminal/Repeater
TR System Radio (Micro, UHF, VHF, HF), O	
Equipment	Details:
System Type:	960си.
Manufact Year: 1984 (Installed)	Kampala-Konge 2+1 sys
Manufacturer: Telettra	Konge-tombarara itisys
MUX Equipment	Detalls:
System Type:	
Manufac. Year.	
Manufacturer :	
Other Equipment	
	🖌 en la substance de la constance de la consta
Link Name   Kampala - Enteppe /	Function Terminal / Repeater
TR System Radio Micro, UHF, VHF, HF), O	NC, OW Analog / Digitat 24 Ht
Equipment .	Details:
System Type: '/	
Manufact Year: 1983 (Installed)	
Manufacturer: Telettra	Konge - to Enterble 1+1 sys
MUX Equipment	Details:
System Type:	
Manufact. Year:	
Manufacturer:	
Other Equipment	

Link Name Konge - Bwerenga	Function Terminal /Repeater
TR System Radio(Micro(UHF)VHF, HF), OV	NC, OW Analog (Digita)
Equipment	Details:
System Type: Transmitter	3 mart such a start a start
Manufact Year: (993 (Installed)	30cH sys. 4cH in use
Manufacturer: Awa Coden (Australia)	Link with other micro sys. to Kampala T/H
MUX Equipment	Details:
System Type:	This transmitter works for RCS sending
Manufact. Year:	via Bwerenga Station. (4cH)
Manufacturer:	Ju tu
Other Equipment	· · · · · · · · · · · · · · · · · · ·
Chief Equipment pes reading are done	c ou ronge,

Link Name Fonge -	Kalangala	Function	Terminal / Repeater	
TR System Radio(Micro	, UHF, (VHF) HF ), O	WC, OW An	alog / Digital-	
Equipment		Details:		
System Type:	14 J. 16 J. 16 J. 16	Old Equi	oment	
Manufact Year: 1987Lins	talled)			
Manufacturer: Motorol	۹			
MUX Equipment		Details:		
System Type:				£1. 1
Manufact, Year:				4
Manufacturer:				а К
Other Equipment		•		· · · · ·

(TR\_FORM1.WK3)

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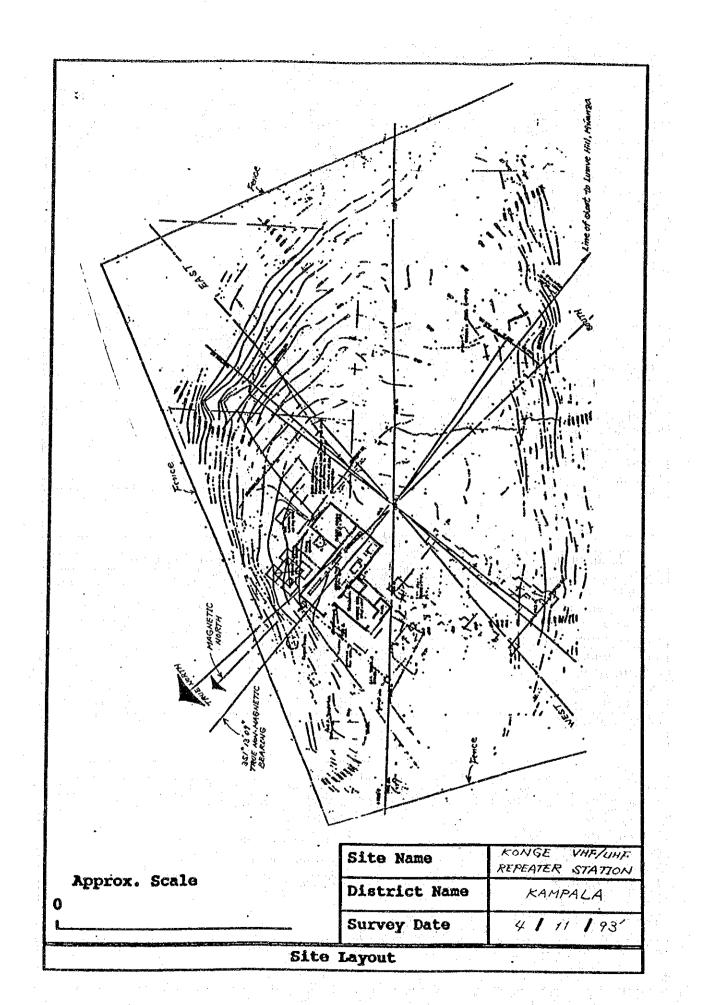
Station Name	Konge	Rep.	2/2	Survey Date	4/Nov. (	93
and the second		*		and the second se	A CONTRACT OF	
						والمحمد ومراجل والمراجع والمترافع ومراجل المراجع والمتراجع والمتراد والمتراد والمتراد

Link Name	Kampala - Mpoma	· · · · · · · · · · · · · · · · ·	Function	<b>Ťorn</b>	inal / Repe	ater	
TR System	Radio(Micro) UHF, VHF, H	F), OWC	), OW	Analog /£	ligital-	64/L H	2
Equipment		]	Details:			· .	
System Type:			960CH,	(tlsys			
Manufact, Yea	1: (980 (Installed)						
Manufacturer:					and a summer and a summer and the full of the summer of		
<b>MUX Equipm</b>	ent	[	Details:				
System Type	•					•	
Manufac, Yea	•		•				
Manufacturer	•						
Other Equipr	nent						
				•	:		

Link Name	Kampala - Masind	ll - Grutu	Function	• • • • • • • • • • • • • • • • • • • •	/Repeater
TR System	Radio(Micro, UHF)V	'HF, HF ), OW	/C, OW	Analog / Digit:	<b>.</b>
Equipment		•	Details:	· · ·	A
System Type:		•	2444	, 1+1 sys .	masind - 9cH
Manufact. Year	: 1987 (Installed)				Gulu -12CH
Manufacturer:	NEC				·
<b>MUX</b> Equipme	ent		Details:	1	
System Type:			1 · ·		
Manufact, Year	• •				
Manufacturer:					
Other Equipm	ent			· · ·	•,•

Link Name	Kampala - Fort Portal		Function		Ferminal-/ Repeater
	Radio(Micro(UHF)VHF,	HF), OW	C, OW	Analo	og / <del>Digital</del>
Equipment System Type: Manufact, Yea Manufacturer:	r: 1988 (installed)		Details: 2.4cH7	(109	Sys F/Portal - 12cH?
MUX Equipm System Type: Manufact, Yea Manufacturer:	<b>r:</b>		Details:		
Other Equipr			· · · · · · · · · · · · · · · · · · ·	.:	

Link Name Kampala - Jinia - Nalrobi	
TR System Radio(Micro)UHF, VHF, HF), O	WC, OW Analog / Digital 29742
Equipment	Details:
System Type:	960cH, 1+1545
Manufact Year: (913 (Installed)	Kampala - Konge - · · coaxial Cable
Manufacturer: Figitsu	
MUX Equipment	Details:
System Type:	
Manufact. Year:	
Manufacturer:	
Other Equipment	



Station Name	Dundu Rep.	Survey Date	9/Nov.1	93

Link Name   Kampala - Masaka - Mbarar	a Function Terminal/Repeater
TR System Radio((Micro) UHF, VHF, HF), (	
Equipment	Details:
System Type:	1+1
Manufact Year: 1984 (Installed)	
Manufacturer: Telettva	
MUX Equipment	Details:
System Type:	
Manufac. Year.	
Manufacturer :	
Other Equipment	₩₽₩₽₩₽₩₽₩₽₩₽₽₽₽₽₩₽₽₽₽₩₽₽₩₽₩₽₩₽₩₽₩₽₩₽₽₩₽

Link Name   Kampala - Entebbe	Function	-Terminal / Rep	peater
TR System  Radio(Micro) UHF, VHF,	HF), OWC, OW	Analog / Digital	2642
Equipment	Details:		
System Type:	1 1+1		
Manufact Year: 1983(Installed)		÷	
Manufacturer: Telettra		· · · · · · · · · · · · · · · · · · ·	
MUX Equipment	Details:	······································	
System Type:		•	
Manufact. Year:			
Manufacturer:		<u> </u>	
Other Equipment			•

Link Name	Konge - Bwerenga	Function -Terminal / Repeater	
TR System	Radio(Micro, UHF) VHF, HF), C	DWC, OW Analog / Digital	
Equipment	·	Details:	
System Type:		BOCH SYS. 4th in use.	
Manufact. Yea	r: 1993(Installed)	For RCS Tx, Rx	
Manufacturer:	AWA		
<b>MUX Equipm</b>	ent	Details:	
System Type:	•		
Manufact, Yea	<b>n:</b>		
Manufacturer:			
Other Equipr	nent		
 -			

a state of the sta			1			
Link Name			Function	Termina	al / Repeater	
TR System Re	dio(Micro, UH	F, VHF, HF), C	DWC, OW	Analog / Digi	tal	
Equipment			Details:	· · · ·		
System Type:		· .				
Manufact. Year:						
Manufacturer:			-	•		
<b>MUX Equipmen</b>	t		Details:			
System Type:					. '	,
Manufact, Year:	:	•			· · · ·	·
Manufacturer:	· · · · ·	11 (1997) 				
Other Equipment	nt		•			
· · · ·		1				

(TR\_FORM1.WK3)

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			FORM-F
Pre	ent Conditions of	MBALE Manuel Exchange	
· · · · ·			ALS DALL
	v - 1993	NAME: TAM	
Exch. Name: MBA		TITLE: REGIO	NAL TELECOMMS
1. Subscribers	No.of Connected	No.of Walting	MANAGER Expected Demand
·····	Subscribers	Applicant	after 5 Years
Government use:	350(450)	11(110)	11(200)
Business use:	18 3 (780)	) 34(235)	60 (465)
Resident use:	152 (350)	96(216)	180 (584)
Total:	6851580	14 1(561)	251(1249)
	1	C ·	<u> </u>
2. Call Traffic	C23 C23+	2×2	Trunk calls
	Local Calls	Trunk Calls	in same GSC
No.of calls/month	calls	calls	X
Holding time	min	min.	
3. Facilities			
Switch <del>board</del>	Type C23 X-BAR	Common-Batt-/-Ma	gneto= (with ANI-PAK
•	Capacity		lines
	Manufacturer	HITACHI JAPA	
	Manufact. year	1975, 1 ( Installed	<u>vear 1972</u> )
Massa 1. 1.2		(Route-1)	(Route-2)
Trunk lines	Destination		
	Type of lines	OW/OWC/Cable	OW/OWC/Cable
	Signalling	UHF/Microwave	UHF/Microwave
	No.of channels	Automat/Manual	Automat/Manual
	Manufacturer	•	
•	Manufact. year	a <del>na pangangan pangan</del> a (193). Tanggan pangangan pan	
•	immutater year	<del>87</del>	
Engine generator	Capacity	125 KVA	
	Manufact, year	CONDITION Good	and the second secon
		(Before 4~ 5 Years?	)
Local cables	Total pairs	1600 pairs	
	Usable pairs	pairs	
		(40% Un-Usable)	
4. No. of Staff			
Post master:	1	8:00~13:00	
Tel. operator:	Day ti	me:/3:00~/8:00 Night	time: 18:00~8:00
Tel. maintenance:	Constant and a survey of the s		
Postal services:			
•			an a
5. Problems			
Reasons of waiting	applicant:	· .	
		· · ·	
Other problems:		1	

- 1- THE MBALE-KAMPALA LINK IS YERY BAD
- 2- CONGESTION DURING PEAK HOURS
- 3- THE SXS SWITCH IS VERY OLD TO SERVE ALL THE ORS CLTS

MBALE Present Conditions of Manual Exchange

Date: Exch.	Name: MBALL	V- 1993	· · ·	· ·
· .			·	
1. Su	bscribers	No.of Connected Subscribers	No.of Waiting Applicant	Expected Deman after 5 Years
	Government use:			
	Business use:			
	Resident use:			
	Total:		Ŷ <u>ĸĸĸ</u> ŢĸĸĸĸĸĸĸĊĸŎĸŎĸĸĸĸĸĸŎŎ	
2. Ca	<b>ll Traffic</b> ( 1~20 d	DCT. 93' on Manual	Board)	Trunk calls
	······································	Local Calls	Trunk Calls	in same GSC
	No.of calls/month		3.584 calls	<b>X</b>
	Holding time	pin.	min.	
				8
	im-successful calls month	407 Calls	2.010 Calls	
J. 28	cilities	-	a set the	
	Switch board	Type S×S	Common Batt./ Ma 800	-
	· · · · · ·	Capacity	فيتبز بالمستجمعات والمستجم والمستحد التشريب والمستحد وبرائه	lines_
	an a	Manufacturer	PLENSEY, U	
	•	Manufact. year	-9603 (Ve	ry old)
			(Route-1)	(Route-2)
	Trunk Lines	Destination		•
	ARMER ALLES	Type of lines	OW/OWC/Cable	OW/OWC/Cable
		The or Trues	•	UHF/Microwave
			UHF/Microwave	Automat/Manual
	•	Signalling	Automat/Manual	Automatymanual
		No.of channels	······	
		Manufacturer	: 	
		Manufact. year		
	Engine generator	Capacity	<u>kva</u>	
		Manufact. year		
	Local cables	Total pairs	. pairs	
	LOUGA GREACE	Usable pairs	pairs	
		ANNAL BUTTO	Part of	
L. No.	. of Staff			·
76 <b>6</b> 0		<b>a</b> - 1		
	Post master:	······································	• •••-•	h hima
	Tel. operator:		ime: Nigh	C LING ?
	Tel. maintenance:			
	Postal services:			
		·•.		
5. Pre	blems			
	Reasons of waiting			

Other problems:

Station Name	Mbale	1/3	Survey Date	16/Nov./93
Programmer and the second s				
	1. C.	and the second		· · · · · · · · · · · · · · · · · · ·

Link Name	Jinia - Moale	Functio	n ((erminal)/F	Repeater	
TR System	Radio( Micro, UHF) VHF, HF ), OW	IC, OW	(Analog)/Digital	(+1	BOOMHE
Equipment		Details:			
System Type:	TR800D120-5A UHF TX/RX				
Manufact. Yea	r: 1977				
Manufacturer:					
<b>MUX</b> Equipm		Details:			
System Type		120CH	HOCH In Use		
Manufac. Year	· · · · · · · · · · · · · · · · · · ·				
Manufacturer	: Telettra				
Other Equipr	nent				

Link Name	Mbale - Kumi	Function	Termina	y Repe	ater	
TR System	Radio(Micro,(UHF) VHF, HF), OW	C, OW	(Analog) Digi	tal (	+0	400MHz
Equipment System Type: Manufact. Yea Manufacturer:	TR4FM12-IA TX/RX Ir: 1987 (Installed)	Details:	uip. Attached ··· ZCH In Use	<b>)</b> )		
MUX Equipm System Type:	ent	Details:			· · · ·	
Manufact. Yea Manufacturer:						· · · · · · · · · · · · · · · · · · ·
Other Equipr	nent	· · ·		·		

Link Name	Mbale - Soroti		/Repeater
TR System	Radio(Micro,(UHF)VHF, HF), O	NC, OW (Analog)/Digita	al (+1 400MHz
Equipment System Type:	T2400060-64 UHF Tx/2x	Details: Finding Problem is occ	inv because of
Manufact. Year		insafficiency of path	clearance.
Manufacturer:	NEC		· · · · · · · · · · · · · · · · · · ·
<b>MUX Equipme</b>	ent	Details:	
System Type:	PST MP120	24 CH Installed	•
Manufact. Year	· · ·		
Manufacturer:	Telettra		
Other Equipm	ent	· · ·	
•			an An Anna an Anna Anna Anna Anna Anna A

Link Name	Mbale - Pallisa	Function		ninal / Repea	iter	
TR System R	adio( Micro, UHF, VHF) I	HF), OWC, OW	Analog)/ [	Digital		
Equipment	i .	Details:		· ·		
System Type: 🤈	UD 1603 AA	ICH				
Manufact. Year:	1978?					
Manufacturer:	Motorola			internet and the second se		
<b>MUX Equipmer</b>	nt	Details:				
System Type:						
Manufact. Year:		· · · ·			100 C	•
Manufacturer:						
Other Equipme	nt					
· · ·					1	

Station Name	Mbale	2/3	Survey	16/Nov.193	
Construction and a state of the			THE R. P. LEWIS CO., LANSING MICH.		California and and and an
		<ul> <li>• 2</li> </ul>	and the second sec		

Link Name	Mbale - Tororo	Function (Terminal)/Repeater
TR System	Radio(Micro, UHF, VHF, H	IF),(OWC) OW Analogy Digital
Equipment		Details:
System Type:		
Manufact. Yea	ar:	
Manufacturer:		
<b>MUX Equipm</b>	ent	Details:
System Type Manufac, Yea	: PST L12 z (Old.)	12ch in Use
Manufacturer		
Other Equips	nent	

Link Name	Mbale - Tororo	Function (Terminal) Repeater
TR System	Radio(Micro, UHF, VHF, I	IF), QWC) OW (Analog / Digital
Equipment		Details:
System Type:		
Manufact, Yea	r:	
Manufacturer:		
MUX Equipm	ent	Details:
System Type: Manufact, Yea		12 CH IN USE
Manufacturer:	Tolettva	
Other Equipn	nent	

Link Name	Mbale - Tororo	Function	on Terminal / Repeater
TR System	Radio(Micro, UHF, VHF, HF), OW	VQ OW	(Analog) / Digital
Equipment	· · · · · · · · · · · · · · · · · · ·	Details:	
System Type:			
Manufact. Yea	<b>r:</b>		
Manufacturer:			
MUX Equipm	ent	Details:	
System Type:	PST LIZ	1204	in Use
Manufact, Yea	r: ? (old.)		
Manufacturer:	Telettra		
Other Equipr	nent		
			:
		1	

Link Name	Mbale - Busia	Function [(Terminal/Repeater
TR System	Radio(Micro, UHF, VHF, HF)(OV	VO, OW (Analog) / Digital
Equipment		Details:
System Type:		
Manufact. Yea	r:	
Manufacturer:		
<b>MUX Equipm</b>	ent	Details:
System Type:		12CH - GCH IN USE
Manufact. Yea	r: ? (oid.)	
Manufacturer:	Telettra	
Other Equipr	nent	

Station Name	Mbale	3/3	Survey Date	16/Nov.	
Contract the second second second	CONTRACTOR OF THE OWNER OWN	Contraction of the second s			

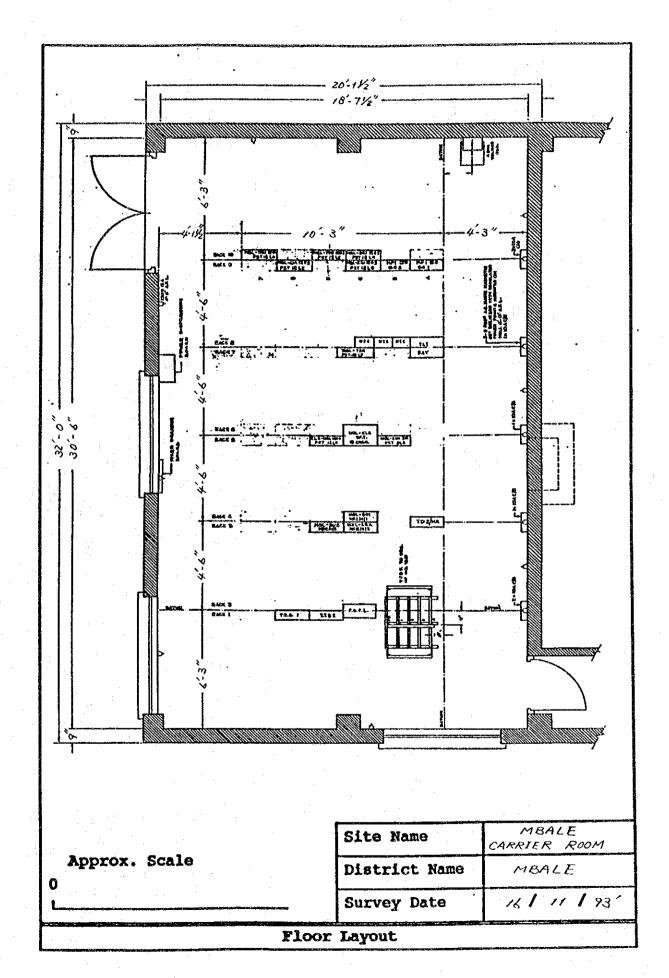
Link Name	Mbale - Budadir		Functio	n [(	Terminal/R	epeater	÷	
TR System	Radio(Micro, UHF,	VHF, HF ),	WO OWO		gy Digital			
Equipment			Details:				****	
System Type:								
Manufact, Yea	u:			•				
Manufacturer:				1				1. A.A. 1.
<b>MUX Equipm</b>	ent		Details:		: · · .			0.**************
System Type	: PST LIZ		12 04		H in Use		an an	1. A
Manufac, Yea	r (010)		1.2.01	~~~~			• • •	
Manufacturer							1	
Other Equipr	nent	·			······································			- ·.
		•						

Link Name	Mbale - Mayenze - Bu	duda	Functio	n (Te	erminal)/Re	peater
TR System	Radio( Micro, UHF, VHF,		C) OW	Analog	<b>7</b> Digital	
Equipment			Details:			
System Type:		•				
Manufact. Yea	ir:		1			e de la compañía de l
Manufacturer:					r i star	
<b>MUX Equipm</b>	ent		Details:		· · · · · · · · · · · · · · · · · · ·	
System Type:	TD2		10CH 1	Equipped	, Not Wor	King
Manufact. Yea	r: ? (very old)					n en
Manufacturer:						
Other Equipn	nent					

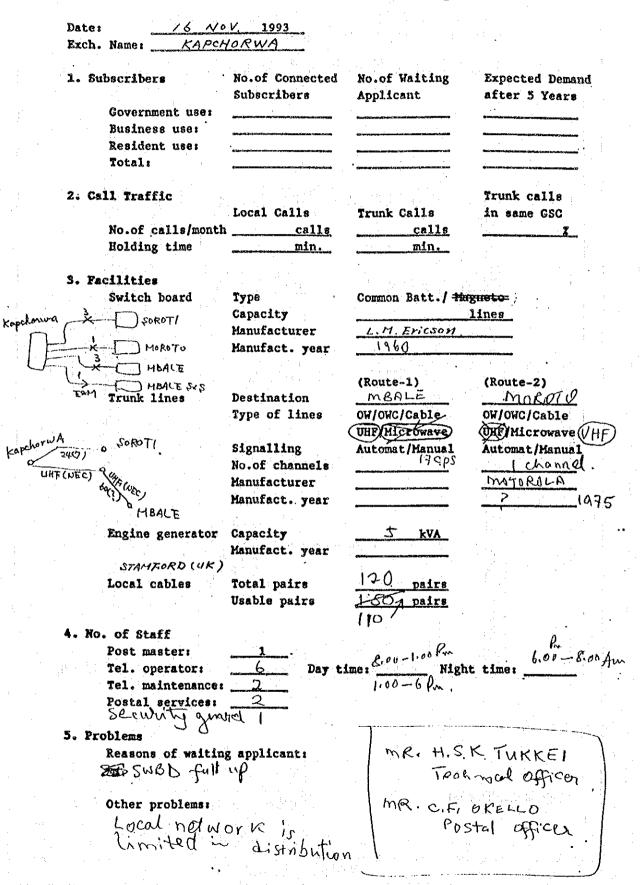
Link Name Mbale - Nakaloke	Function	(Terminal) Repeater
TR System Radio(Micro, UHF, VHF, HF	), OWC,(OW)	Analog)/Digital
Equipment System Type: Firom DP, 10 pairs Connect Manufact, Year: 5 pairs in use now.	od. Details:	
Manufacturer: MUX Equipment	Details:	and a second
System Type: Manufact. Year:		anta anta anta anta anta anta. Anta anta anta anta anta anta anta
Manufacturer: Other Equipment		a da anti-arresta da anti-arresta da anti- Altra da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-a Altra da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-a

Link Name	Mbale - Bulucheke, Sironko	Function	(Terminal)	Repeater	
TR System	Radio(Micro, UHF, VHF, HF), OV	VC,(OW)	Analog ) Digital		
Equipment		Details:			
System Type:	IcH each connection		· ·		
Manufact. Year:	to the both stations			1 A.	
Manufacturer:					·
MUX Equipme	nt	Details:			
System Type:			9 <sub>11</sub>	1	
Manufact. Year:					
Manufacturer:		1.0	a second second		
Other Equipm	ent				1997 - 1994 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
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(TR\_FORM1.WK3)



Present Conditions of Manual Exchange



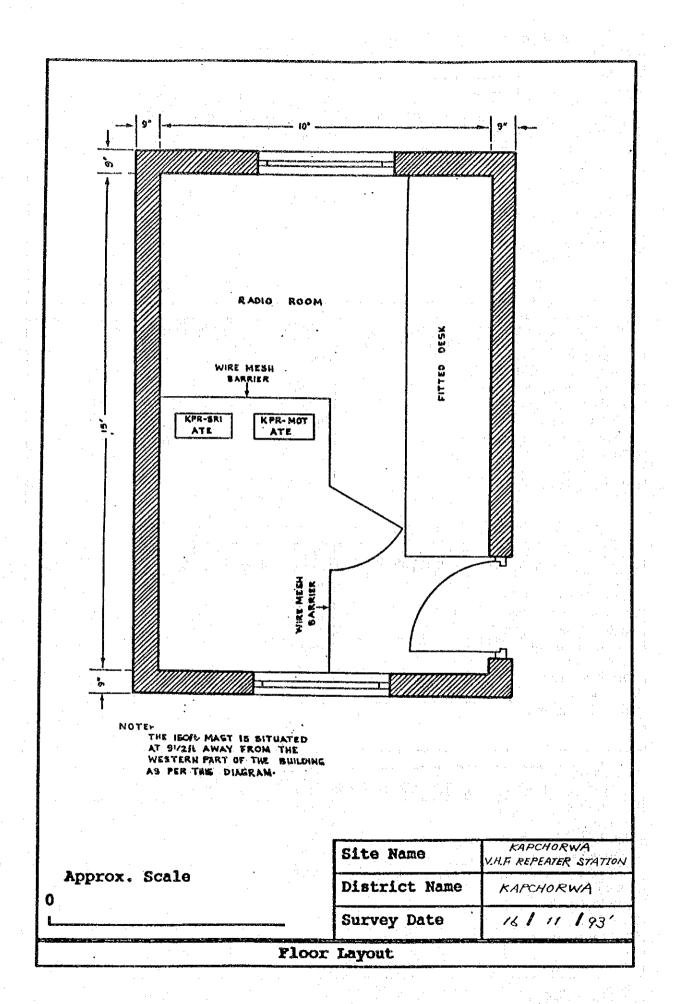
Station	a [	Survey		
Name	Kapchorwa	Date	16/Nov./93	
Committee and the second s	in survey and the second s	AND ADDRESS OF ADDRESS	and an and a second	Contraction of the local division of the loc

Link Name Sorott - Kapchorn	
TR System Radio(Micro, UHF) VH	HF, HF), OWC, OW (Analog) Digital 1+1 400MHz
Equipment	Details:
System Type: TRUEM 24-IA TX/RX	Mux Equip. Attached
Manufact. Year: 1991 (Installed)	(24cH ····· 7cH In Use)
Manufacturer: NEC	
MUX Equipment	Details:
System Type:	
Manufac. Year.	
Manufacturer :	
Other Equipment	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
• • •	

Link Name	Kapchorwa-	Moroto		Functio	n (ſen	ninal)/R	epeater	
TR System	Radio(Micro,	UHF (VHB,	HF), OW	C, OW	(Analog)	Digital	· .	(GOMH2
Equipment				Details:				
System Type:	TUD 1603AA		•	I CH	· · ·			
Manufact, Yea	ur: 19757							•
Manufacturer:	Motorola.						•	
<b>MUX Equipm</b>	ent		•	Details:				
System Type:	1							:
Manufact Yea							1. A.	
Manufacturer:								
Other Equipr	nent			·	· · · ·	·····	· · · · · · · · · · · · · · · · · · ·	
•••								

Link Name	Kapchorwa - Moroto_	Function	n (Terminal/Repeate	ər
TR System F	adio(Micro, UHF, VHF)	HF), OWC, OW	Analog Digital	(COMH2
Equipment		Details:		
System Type:	TUDIDOZAA	I CH	•	:
Manufact. Year:	(975 ?			
Manufacturer:	Motorola			
<b>MUX Equipme</b>	nt	Details:		
System Type:		· · · · · ·		
Manufact. Year:				
Manufacturer:				
Other Equipme	ent			
Chiel Equipine	28 FK		·	

Link Name		Function	Terminal / Repeater	
TR System	Radio(Micro, UHF, VHF, HF), OV	VC, OW An	alog / Digital	
Equipment		Details:		
System Type:				
Manufact. Yea	ur: estate a second a			
Manufacturer:		· · ·		
MUX Equipm	ent service se	Details:		
System Type:				
Manufact. Yea	ar: A second			
Manufacturer:				
Other Equip	nent		· · · · · · · · · · · · · · · · · · ·	
		1		
4. J.	and the second			



Station Name		Bushar			Survey Date		,	1.193	and a set of the set of the set of
			the second se	Contractor and Contractor and States and States	ACCOUNT OF THE OWNER.	AND DESCRIPTION OF A DE			FEBRUARY 1000000000000000000000000000000000000
	• .								

Link Name Jinla - Mbalk	Function	Terminal / Rep	beater	
TR System Radio(Micro,(UHF,)VHF, HF), O	WC, OW (A	nalog)/ Digital	800	MHZ
Equipment	Details:	19 mar 19 19 19 19 19 19 19 19 19 19 19 19 19		
System Type: TR800 P120-5A UHE TH/RX				
Manufact. Year: 1977			- 	
Manufacturer: NEC				
MUX Equipment	Details:			
System Type:				
Manufac. Year.				
Manufacturer :				
Other Equipment		······································		

Link Name		.*			Function	Te	erminal / Re	epeater	
TR System	Radio(Mic	ro, UHF,	VHF, HF	), OW	C, OW		/ Digital		· ·
Equipment				1	Details:				· · · · · · · · · · · · · · · · · · ·
System Type:	ант — н -	: .							
Manufact Yea	ar:	÷.	· · · ·	· 1					
Manufacturer:	··· · .								
<b>MUX Equipm</b>	ent	.: •	· · · · · · · · · · · · · · · · · · ·		Details:	······			<u> </u>
System Type:									
Manufact, Yea	ur:								
Manufacturer:	1. T.	2000 - 2014 2014							
Other Equipr	nent		······································	·					
•••						·			

Link Name			Function	Terminal / Repeater	
TR System	Radio(Micro, UHI			Analog / Digital	· · · · · · · · · · · · · · · · · · ·
Equipment	······································		Details:		· · ·
System Type:				•	
Manufact, Yea	ar:	a 1			
Manufacturer:				·	
<b>MUX Equipm</b>	ient		Details:		······
System Type:					
Manufact. Yea					
Manufacturer:					
Other Equip		······	······································		
• •					

Link Name		Function	Terminal / Repeater
TR System	Radio(Micro, UHF, VHF, HF), OW	IC, OW	Analog / Digital
Equipment		Details:	
System Type:			
Manufact. Yea	<b>r:</b>		
Manufacturer:			
<b>MUX Equipm</b>	ent	Details:	
System Type:			
Manufact. Yea	r:		
Manufacturer:		i i	
Other Equipr	nent	*******	
• •	· · · ·		

(TR\_FORM1.WK3)

FORM-F TORORO Present Conditions of Manust Exchange 12 NOVI Dates 1993 Exch. Name: \_ TORORO 1. Subscribers No.of Connected No.of Waiting Expected Demand Subscribers Applicant after 5 Years 1792 - 42 Government use: 95 (38%) 83 (33%) Business use: 19937 72 (29% Resident use: 425 250 Total: 10 2. Call Traffic Trunk calls Local Calls Trunk Calls in same GSC No.of calls/month calls. calls Holding time ; min. min. 3. Facilities Switch beard-Type C23X-EAR Common Batt./ Magneto-2000 lines Capacity Manufacturer HITACHI JAPAN Manufact. year 1980 (1988 Installed year. (Route-1) (Route-2) V Trunk Lines Destination Type of lines OW/OWC/Cable OW/OWC/Cable UHF/Microwave UHF/Microwave Signalling Automat/Manual Automat/Manual No.of channels Manufacturer Manufact. year Engine generator 15 kVA Capacity INTEX (UK) Manufact. year Local cables Total pairs 1000 pairs 850 Usable pairs pairs 4. No. of Staff Post master: 1 0 Tel. operator: 1 (Pco) Day time: 8000/700 Night time: Tel. maintenance: 8 Postal services: Telegraphist : 5. Problemseinger : Reasons of vaiting applicant: Long distance Subs. Cannot be PADDY WANDIII Connected. il. >10Km. Other problems: Tranks to Mbale and Empala Assis invit Engineer Long distance subs. Cannot be connected. ie >10Km. Other problems: MM. date

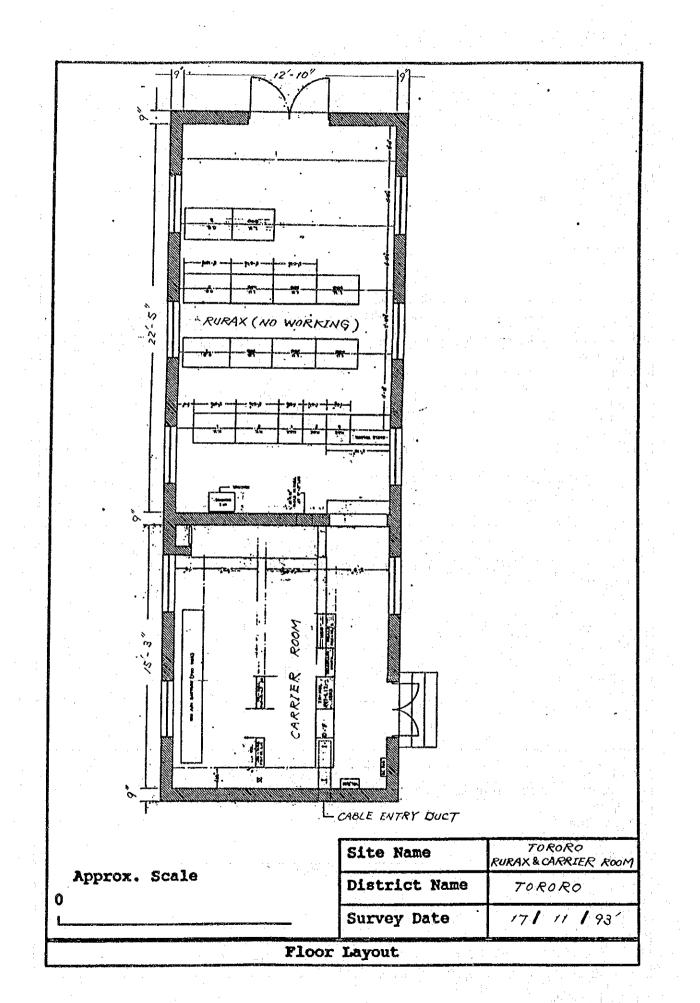
Sta Na	tion me	Toror		}	Survey Date		17/Nov.1	 of the second states in the
			4		4	11 A.		

Link Name Jinja - Mbale	Function Ferminal/Repeater	ali ani many mbani na isang
TR System Radio(Micro,(UHF) VHF, HF), OV	C, OW (Analog / Digital	BOOMHZ
Equipment	Details:	
System Type: TR-BOOD120-5A UHF Tx/Px	No Drop at Tororo	
Manufact, Year: 1999		
Manufacturer: NEC		
MUX Equipment	Details:	
System Type :		
Manufac. Year.	•	
Manufacturer :		
Other Equipment		

Link Name	Torovo - Malaba		Functio	on Terminal / Be	ector.
TR System	Radio(Micro,(UHF)VHF	, HF), OV	VC, OW	(Analog) / Digital	400 MH2
Equipment		· ·	Details:		
System Type:	TR4FM12-1A	•	5CH	Equipped.	
Manufact. Yea	ur: 1988			n USR,	
Manufacturer:	NEC			A USK .	
<b>MUX</b> Equipm	ient		Details:	······································	
System Type:		$(-1) = -\epsilon$	These	5 cHs are all connect	rea to mpale.
Manufact. Yea	u:				
Manufacturer:		· · ·			
Other Equips	nent	· · · · · · · · · · · · · · · · · · ·			
•••				•	

Link Name	Tororo - MbalR	Function Terminal / Repeat	eler .
TR System	Radio( Micro, UHF, VHF, HF ),	OWO, OW (Analog) Digital	
Equipment		Details:	
System Type:	PSTL12 ×3	12 CH X3 = 36 CH in use	
Manufact, Yea	IT:		
Manufacturer:	Telettra		
<b>MUX</b> Equipm	ent	Details:	
System Type:			
Manufact. Yea	ur:		
Manufacturer:			
Other Equipr	nent		
· ·			

Link Name	1				Functior	n 👘 Termi	nal / Repeater	
TR System	Radio( I	Micro, U	HF, VHF	, HF ), OV	IC, OW	Analog / Di	gital	
Equipment	*····*			<u> </u>	Details:			· · · ·
System Type:	1			1. Tati				
Manufact, Yea	u:	· .				1		
Manufacturer:	11 A A A A A A A A A A A A A A A A A A							
<b>MUX Equipm</b>	ent		a		Details:			
System Type:	. 1	· · · · ·	$(A, b) \in \mathcal{A}^{(1)}$					
Manufact, Yea	ar:		k i i	• •				
Manufacturer:		i i i i i i i i i i i i i i i i i i i				· · · ·		
Other Equip	ment				-			



J. MUBOGI Mellegue

Present Conditions of Manual Exchange 64 Wh : wont is y. 77 705 : Temperaty out of Service Dates 18-11-1993 BUSIA Exch. Name: 1. Subscribers No.of Connected No.of Waiting Expected Demand Subscribers Applicant after 5 Years 10 20 Government use: 40 50 50 Business use: 26 45 Resident use: 86 Total: 2. Call Traffic Trunk calls Local Calls Trunk Calls in same GSC 400 calls 120 calls No.of calls/month < Holding time min. min. 3. Facilities Switch board Type -Gommon Batt. / Magneto 100 Capacity lines\_ Manufacturer -M. Ericson INST. 1971. Manufact. year (Route-1) (Route-2) MBALE. Trunk lines Destination LUMINA OW (OWC) Cable Type of lines OW/OWC(Cable) UHF/Microwave UHF/Microwave Signalling Automat/Manual Automat/Manual 2ccts/ 4ccts 1 ccl/faulty 1 yr.) No.of channels Manufacturer TELEIRA Manufact. year W11 Engine generator Capacity **kVA** Manufact. year 120. Local cables Total pairs pairs 120 Usable pairs 4. No. of Staff Post master: 8:00-3:00 4+1(5) Day time: 13:00-10:00 Night time: 10:00-2:00 Tel. operator: Tel. maintenance: Mr. RARASA TO. M. WANDERN SSE Postal services: MR. MNRUGAK. TEL 5. Problems Reasons of waiting applicant: 4 OPERATIORS Switch Board is full up Local network is hot wide enough. 1 TELEGRAPHIST. Other problems: Old System. Telilog, Open Willight MR. HALOBI M. P/MASE BARAZA F. P.D. MAGINA P. RO BULIRE J. P.O.

Station Name	Busia	Survey Date	18/Nov/93
		e de la companya de la	

Link Name	Moale - Busia		Function	Tei	rminal / <del>Rep</del>	<b>Date</b> r	
TR System	Radio(Micro, UHF,			Analog /	Digitat		-
Equipment			Details:				
System Type:							
Manufact, Yea	ir:	· ·		· .			
Manufacturer:	:	÷.					······
MUX Equipm	ent		Details:	1.5	ctt ··· Dialling tctt ··· Manual	cet.	
System Type	: L 12H		GCH in	use (			
Manufac. Yea	1970s		•		ech ··· planua	CCT.	
Manufacturer	: Telettra						
Other Equipr	nent						
						· · ·	

Link Name	Busia - Lui		Function	Terminal / <del>Repeater</del>	
TR System	Radio(Micro, U	HF, VHF, HF ), C	WC, OW) An	alog / Digital	<u> </u>
Equipment			Details:		
System Type:		• •	Figult for	1 year.	1
Manufact. Yea	r:				
Manufacturer:	:			and the second	
<b>MUX Equipm</b>	ent		Details:		
System Type:					1
Manufact Yea	r:				
Manufacturer:		1.			
Other Equip	nent				· ·
	and the second second	· · ·		:	
		1			

		and the second	
Link Name		Function	Terminal / Repeater
TR System	Radio(Micro, UHF, VHF, HF	), OWC, OW And	alog / Digital
Equipment		Details:	
System Type:			
Manufact, Yea	ir:		
Manufacturer:		and the second second	
<b>MUX Equipm</b>	ent	Details:	
System Type:			
Manufact. Yea	ur:	· ·	
Manufacturer:			:
Other Equips	nent		

Link Name		Function	Te	erminal / F	Repeater		
TR System Radio(Micro,	UHF, VHF, HF), OW	C, OW	Analog	/ Digital	1.1		
Equipment		Details:				14 A. (1997)	
System Type:				·		*	, i
Manufact, Year:				:	e de la composition de	5 g	
Manufacturer:							<u>.</u>
MUX Equipment		Details:					
System Type:							
Manufact. Year:	and the second second			· .			
Manufacturer:	19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -						
Other Equipment	· · · · ·						÷ +
	· .						

(TR\_FORM1.WK3)

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SETER KIRENGA	resent Conditions of	manage prenanka	
Date: 19 .	- 11 - 1993		
Exch. Name: J	inia		
•	<u> </u>		
1. Subscribers	No.of Connected	No.of Waiting	Expected Demand
	Subscribers	Applicant	after 5 Years
Government use	: 317	• • •	
Business use:	58'0	-d	an and an
Resident use:	537	43	an a
Total:	1434	43	
			a na mana na mana kana kana kana kana ka
2. Call Traffic	•		Trunk calls
	Local Calls	Trunk Calls	in same GSC
No.of calls/mo	nth <u>calls</u>	calls	
Holding time	min.	<u>min.</u>	1
S. Facilities			
Switch board-	• • • • •	R Common Batt./-Ma	•
	Capacity	2400	
:	Manufacturer	HITACHI JA	
ang	Manufact. year	(Installed year	1972)
~		(Route-1)	(Route-2)
Trunk lines	Destination	C+	·
	Type of lines	OW/OWC/Cable	OW/OWC/Cable
		UHF/Microwave	UHF/Microwave
	Signalling	Automat/Manual	Automat/Manual
	No.of channels	<del></del>	Constant of the
	Manufacturer	<del></del>	010-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
. · · ·	Manufact. year		
Engine generate	- Consita	1.17A	
migine generati	Manufact. year	<u>kva</u>	
	manutact. year		
Local cables	Total pairs	8200 pairs	
	Usable pairs	8200 pairs	
	ACCEPT DETTE		
4. No. of Staff	· · · ·	8:00~14:00	· · · · ·
Post master:	1	14100~18:00 -0.01200 Nom	18:00 01
Tel. operator:	Dav t	imer 00 - 600k Nigh	t time.
Tel. maintenanc	e:		
Postal services	: 25 + OUTD	ost 17) = 42,	
			4
5. Problems			3
Reasons of wait	ing applicant:	. •	
Transport p	staffig.		12
· • •	~0	· .	19. 17
Other problems:			12
Exchange is	rid.	1	2/1
Carrili Da	vipment for off in pment for off is often with and transport is inadequite	+ with are d	19. 17
mainda		3. A MALI	Allant
ALD ALVING	V OTARN WITH	THAN -road	arthing

Station Name	Jinja	1/4	Survey Date	191	Nov. 193	
			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
				1 C C C C C C C C C C C C C C C C C C C		

Link Name	Kampala - Jinja - Nairobi	Function	Terminal / Rep	oater
TR System	Radio (Micro) UHF, VHF, HF), O	WC, OW Ar	nalog / <del>Digital</del>	2.4.42
Equipment		Details:		
System Type:	FM-26-2			
Manufact. Yea	r: (973 (Installed)			
Manufacturer:	Finiltsu			
<b>MUX Equipm</b>	ent	Details:		
System Type	MD-SW-1, MD-SW-2	Kampala -:	Jinja : 156CH in	use
Manufac, Yea	(9)3(1-stollad)		<b>√</b>	
Manufacturer	: Fulitsu			
Other Equipr	nent			
		÷		•

Link Name	Jinja - Mbale	Functio	n Terminal /-	Repeater
TR System F	adio(Micro(UHF)VHF,	HF), OWC, OW	Analog / Digital-	BOOMHZ
Equipment		Details:		
	TR-8000120-57 UHF TX/	Rx S'by	system is not wor	king now.
Manufact, Year:	197B (Installed)		- / -	
Manufacturer:	NEC			
MUX Equipme	nt	Details:		
System Type:	MP 120		- Mbale : 36CH in	
Manufact, Year;		Jinja	· MODALE SUCH IN	· • • • • •
Manufacturer:	Telettra			·
Other Equipme	ent			
	and the second			

Link Name	Jinja - Lugazi	Function	Terminal /Re	peater-
TR System Rac	lio(Micro, QHF)VHF, HF), C	WC, OW A	nalog / <del>Digital</del>	LOOMHE
Equipment		Details:		
	R4FM12-1A	With MUX		
Manufact. Year:	988(1-stalled)	No probl-	en now.	
Manufacturer:	NEC			
<b>MUX Equipment</b>		Details:		· · · · · · · · · · · · · · · · · · ·
System Type: Manufact. Year:				
Manufacturer:				·
Other Equipment	· · · · ·	····		······································
••	· ·		· .	

Link Name	Jinja - Iga-ga	Function Terminal /Repeater	
TR System	Radio(Micro, UHF, VHF, HF	), QWC) OW Analog /-Digital	
Equipment		Details:	
System Type:	N		
Manufact Yea	r:		
Manufacturer:			
MUX Equipm	ent	Details:	
System Type:	PST L12/3 × 2		
Manufact, Yea	r:		
Manufacturer:	Telettra		.*
Other Equipn	nent		
			· ·

Station Name	Jinja	2/4	Survey Date	19/Nov./93	
	1	1	1		

Link Name Jinja - Kamuli	_Eunction Terminal / Repeater
TR System Radio (Micro, UHF, VHF, HF), (O	WC) OW Analog / Digital
Equipment	Details:
System Type:	
Manufact, Year:	
Manufacturer:	
MUX Equipment	Details:
System Type : PST LIZ/3	
Manufac. Year.	•
Manufacturer: Telettra	
Other Equipment	

Link Name Jinja - Buqiri	Function Terminal / Repeater
TR System Radio(Micro, UHF, VHF, HF)	(OWC) OW Analog / Digital
Equipment	Details:
System Type:	
Manufact. Year:	
Manufacturer:	
MUX Equipment	Details:
System Type: T02	Deu / Dun
Manufact. Year:	3 CH/3CH
Manufacturer: Telettra	
Other Equipment	

TR System Radio(Micro, UHF, VHF, HF), QV	
	VC.)OW Analog / Digital
Equipment	Details:
System Type:	
Manufact. Year:	
Manufacturer:	
MUX Equipment	Details:
System Type: TD 2 Manufact. Year:	2сн/5сн
Manufacturer: Telettva	
Other Equipment	······································

Link Name	Jinja - Busenbatia	Function	Terminal / Repeater	ľ
TR System	Radio(Micro, UHF, VHF, HF), O	WC)OW Ana	log / Digital	
Equipment		Details:		
System Type:				
Manufact. Yea	រ <b>េ</b> :			
Manufacturer:		,	•	
<b>MUX Equipm</b>	ent	Details:	· · · · · · · · · · · · · · · · · · ·	
System Type: Manufact. Yea		2 CH/5CH	H .	
Manufacturer:		•	·	
Other Equipr	nent			· · · · · · · · · · · · · · · · · · ·