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THE MINISTRY OF WATER RESOURCES THE REPUBLIC OF KENYA

## THE AFTERCARE STUDY ON THE NATIONAL WATER MASTER PLAN IN THE REPUBLIC OF KENYA

## FINAL REPORT

## SUPPORTING REPORT

November 1998

NIPPON KOEI CO., LTD KOKUSAI KOGYO CO., LTD.

### LIST OF REPORTS

- 1. EXECUTIVE SUMMARY
- 2. MAIN REPORT
- 3. SUPPORTING REPORTP
- 4. DATA BOOK

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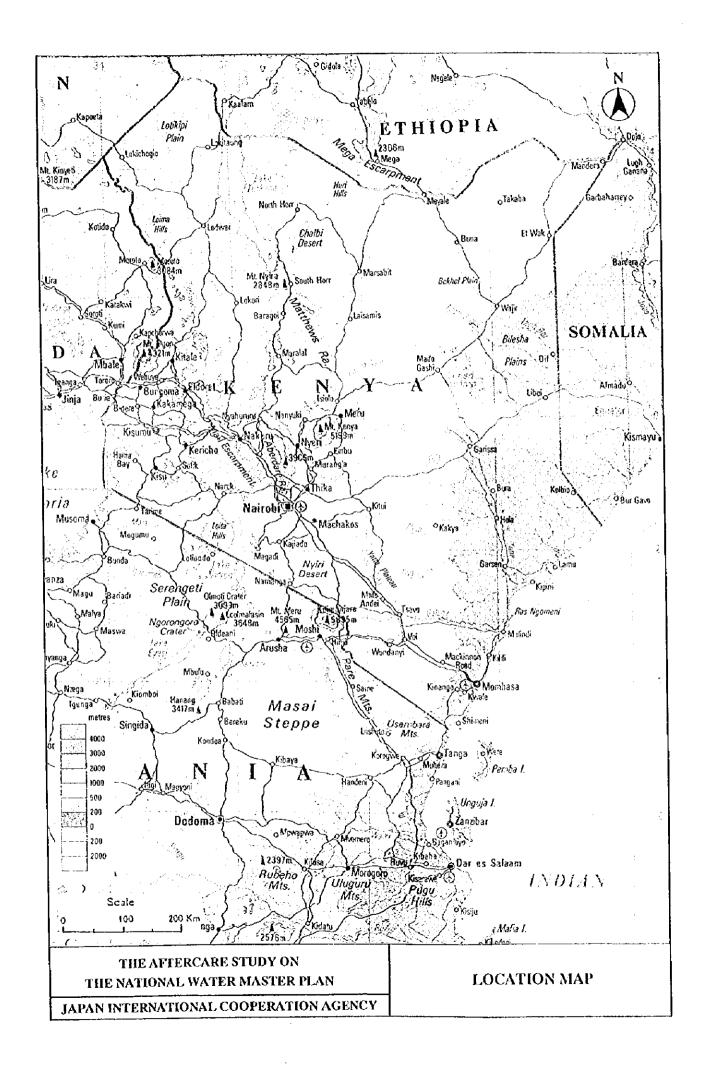
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Exchange Rate Applied

US\$1.00 = Kshs 61.1 = ¥124.7

(as of 10 February 1998)



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## THE AFTERCARE STUDY ON THE NATIONAL WATER MASTER PLAN

### SUPPORTING REPORT

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#### ABBREVIATIONS

- PART I SOCIOECONOMY
- PART II WATER SUPPLY DEVELOPMENT PLAN
- PART III SEWERAGE DEVELOPMENT PLAN
- PART IV WATER RESOURCE DEVELOPMENT PLAN
- PART V LAW AND PUBLIC ADMINISTRATION
- PART VI PROJECT EVALUATION

#### ABBREVIATIONS

AG	Attorney General	KIU	Kenya Industrial Estates Limited
AFW	Accounted for Water	KMD	Kenya Meteorological Department
ASAL	Arid, Semi-Arid Lands	KPLC	Kenya Power and Lighting Co.
CBS	Central Bureau of Statistics	КРТС	Kenya Posts and Telecommunication
CSRP	Civil Service Reform Programme		Corporation
CSS	Computer Service Section of MOW	KS	Kenya Standard
DAO	District Agricultural Officer	KSS	Kenya Soil Survey
DC	District Commissioner	KTDA	Kenya Tea Development Authority
DCO	District Commissioner's Office	KVDA	Kerio Valley Development
DDC	District Development Committee		Authority
DDP	District Development Plan	KWAHO	Kenya Water and Health
DO	District Officer		Organization
DRSRS	Department of Resource Surveys &	Kshs	Kenya Shillings
	Remote Sensing	K£	Kenya Pounds (20 Kenya Shillings)
DTO	District Treasury Office	LA	Local Authority
DWB	District Water Board	LBDA	Lake Basin Development Authority
DWE	District Water Engineer	LU	Livestock Unit
DWO	District Water Office	MCSS	Ministry of Culture and Social
EAMD	East Africa Meteorological		Services
	Department	MLRRWD	Ministry of Land Reclamation,
FAO	Food and Agriculture Organization		Regional and Water Development
	of the United Nations		(presently MOWR)
GDP	Gross Domestic Product	MOA	Ministry of Agriculture
GIS	Geological Information System	MOE	Ministry of Energy
GOJ	Government of Japan	MOED	Ministry of Education
GOK	Government of Kenya	MOENR	Ministry of Environment and
GRÐP	Gross Regional Domestic Product		Natural Resources
GTZ	German Agency for Technical	MOF	Ministry of Finance
	Cooperation	МОН	Ministry of Health
HRD	Human Resource Development	MOHANH	Ministry of Home Affairs and
IBRD	International Bank for		National Heritage
	Reconstruction and Development	MOI	Ministry of Industry
ICDC	Industrial and Commercial	MOL	Ministry of Labour
	Development Corporation	MOLA	Ministry of Local Authorities
IDA	International Development	MOLD	Ministry of Livestock Development
	Association	MOLG	Ministry of Local Government
ILUS	Integrated Land Use Survey		(presently MOLA)
IPC	Investment Promotion Center	MOLH	Ministry of Lands and Housing
IRS	Integrated Rural Survey	MOMDE	Ministry of Manpower
JICA	Japan International Cooperation		Development and Employment
	Agency	MOP	Ministry of Planning
KBS	Kenya Bureau of Standard	MOPND	Ministry of Planning and National
KIRDI	Kenya Industrial Research &		Development
	Development Institute	MOPW	Ministry of Public Works

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MORD MORST	Ministry of Region Development Ministry of Research, Science and	RTPC RWSDP	Rural Trade and Production Center Rural Water Supply Development
monor	Technology		Project
MOSM	Ministry of Supplies and Marketing	SDD	Social Dimensions of Development
MOTC	Ministry of Transport and	SOK	Survey of Kenya
	Communication	SWAP	Surface Water Extraction Permit
MOTW	Ministry of Tourism and Wildlife	SWPD	Special Water Programmes
MOWR	Ministry of Water Resources		Division (MWR)
MPND	Ministry of Planning and National	TARDA	Tana and Athi Rivers Development
	Development		Authority
MWR	Ministry of Water Resources	UC	Urban Centre
NCC	Nairobi City Commission	UDD	Urban Development Department
NCPB	National Cereals and Produce		(MOLA)
	Board	UFW	Unaccounted for Water
NEAP	National Environmental Plan	UNDP	United Nations Development
NES	National Environment Secretariat		Programme
NGO	Non-Governmental Organisation	UNEP	United Nation Environment
NIB	National Irrigation Board	100000	Programme
NMWP-I	National Master Water Plan	UNESCO	United Nations Educational,
	(Stage I)	UNICEP	Scientific, and Cultural Organization United Nations International
NWCPC	National Water Conservation and	UNICEF	
	Pipeline Corporation		Children's Emergency Fund United Nations Industrial
NWMP	National Water Master Plan	UNIDO	
NWP	National Water Policy	UNIDED	Development Organization
O&M	Operation and Maintenance	UNPEP	United Nation Population Fund Programme
OECD	Organization for Economic	USAID	United States Agency for
OECF	Cooperation and Development Overseas Economic Cooperation	USAD	International Development
UECF	Fund	UWASAM	Urban Water and Sanitation
OP	Office of the President	0 11 10 201	Management
PC	Provincial Commissioner	WAB	Water Apportionment Board
PIP	Public Investment Programme	WDD	Water Development Department
PIU	Project Implementation Unit		(MWR)
PPCSCA	Presidential Permanent Commission	WHO	World Health Organization
	on Soil Conservation and	WID	Women in Development
	Afforestation	WRA	Water Resources Authority
PSC	Public Service Commission		-
PSP	Private Sector Participation		

### **ABBREVIATION OF MEASURES**

### Length

#### Money

mm	=	millimeter	Kshs.		Kenya shilling
cm	=	centimeter	KL	=	Kenya pound
m	=	meter	US\$	=	U.S. dollar
km	=	kilometer	US¢	=	U.S. cent

#### Area

Energy

Others

ha	=	hectare	Kcal	=	Kilocalorie
m <sup>2</sup>	Ħ	square meter	KW	=	kilowatt
km <sup>2</sup>	=	square kilometer	MW	=	megawatt
		-	KWh	=	kilowatt-hour
			GWh	Ξ	gigawatt-hour

#### Volume

1, lit	-	liter
m <sup>3</sup>	=	cubic meter
m³/s, cms	=	cubic meter per second
MCM	=	million cubic meter
m <sup>3</sup> /d, cmd	=	cubic meter per day

#### Weight

mg	=	milligram
g	=	gram
kg	=	kilogram
t	=	ton
MT	=	metric ton

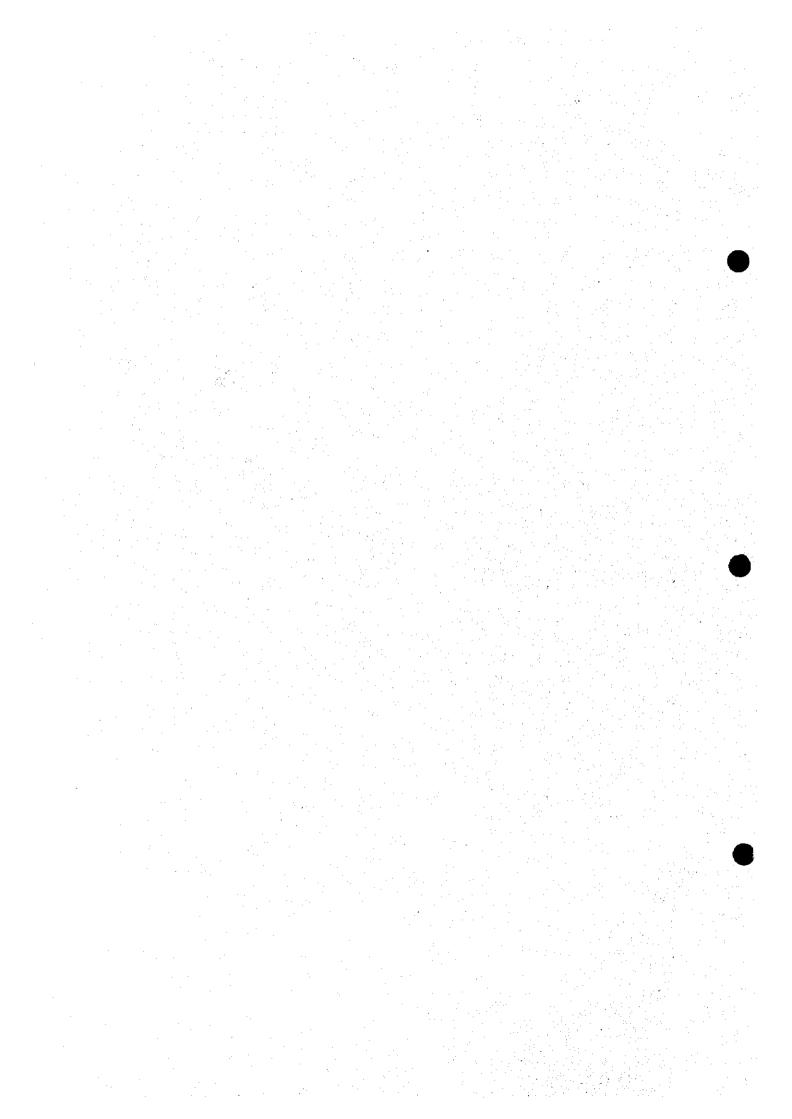
#### Time

sec	=	second
hr	=	hour
d	=	day
уг	=	year

%	=	percent
0	=	degree
1	=	minute
17	=	second
°C	=	degree Celsius
cap.	=	capital
LU	=	livestock unit
md	Ħ	man-day
mil.	~	million
no.	=	number
pers.	=	person
mmho	==	micromho
ррт	=	parts per million
ppb		parts per billion
lpcd	=	litter per capita per day

## PART I

# SOCIOECONOMY



#### THE AFTERCARE STUDY ON THE NATIONAL WATER MASTER PLAN

#### SUPPORTING REPORT

#### PART I: SOCIOECONOMY

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#### CHAPTER 1 PRESENT NATIONAL ECONOMIC CONDITIONS

#### 1.1 Macro Economy

I.

An overview of the Kenyan economy in terms of Gross Domestic Product (GDP) is given in the table below.

											(Unit:	KE million)
	1992		1993		1994		1995		1996		Anoual Growth	Average Share 1992-1996
Description	GDP	<b>9</b> .4	GDP	5.	GDP	<b>%</b>	GDP	5	GDP	5	Rate	(%)
A. Non-Monetary Economy	491.89	4.1	522.45	3.7	560.86	3.3	602.14	- 3.1	648,70	3.0	7.2%	3.5
B. Monetary Economy	10,910.64	95.7	13,662.96	96.3	16,342.38	96.7	18,603.65	96.9	21,213.85	97.0	15.1%	96.5
B-1 Enterprises and Non-Profit Institutions	9,033.73	79.2	11,407.34	80.4	13,968,15	82 <u>.3</u>	15,627.65	81.4	17,945.97	82.1	18.7%	\$1.1
Agriculture	3,016.01	26.5	4,168.45	29.4	5,292.10	31.3	5,778.12	30.1	6,233.00	28.5	19.9%	29.1
Forestry	140.44	1.2	168.08	1.2	190.48	11	203.54	1.1	223.85	1.0	12.4%	11
Fishing	45.16	0.4	53.89	0.4	62.98	0,4	61.93	0.3	68.37	0.3	10.9%	0.4
Mining and Quarrying	30.28	0.3	35.22	0.2	35.68	0.2	36.21	0.2	37.06		5.2%	0.2
Manufacturing	1,230.73	10.8	1,419.63	10.0	1,807.76	10.7	1,945.55	10.1	2,282.23			10.4
Building and Construction	579,60	5.1	655.20	4.6	742.80	4.4	799.18	4.2	879.02			4.5
Electricity and Water	100.33	0.9	126.90	0.9	154.06	1.0	191.13	1.0	208.01	1.0		0.9
Trade, Restaurants, and Hotels	1,517.10	13.3	1,920.65	13.5	2,400.81	14.2	3,235.00	16.9	4,144.76			15.4
Transport, Storage, and Communications	903.70	5.0	991.91	7.0	1,262.95	7.5	1,515.64	7.9	1,713.84	7.8	17.2%	7.6
Finance, Insurance, Real Estate, and Business Service	1,081.34	<b>9</b> .5	£,398.17	9.9	2,015.65	11.9	2,295.52	12.0	2,646.16	12.1	25.1%	ու
Ownership of Dwellings	658.42	5.8	715.69	5.1	764,86	4.5	\$14.00	4.2	936.10	4.3	9.2%	4.8
Other Services	368.65	3.2	477.87	3.4	578.11	3.4	693.73	3.6	813.60	3.7	22.15%	3.5
Less: Imputed Bank Service Charges	-643.03	-5.6	-725.37	-5.1	-1,410.09	-8.3	-1,944.90	-10.1	-2,245.03	-10.3	· ·	-7.9
B-2 Procedures of Government Services	1,722.34	15.1	2,075.04	14.6	2,223.10	13.2	2,728.79	14.2	2,985.71	13.7	14.7%	14.1
B-3 Private Households (Domestic Services)	154.57	1.4	150.53	13	211.13	1.2	247.21	1.3	287.17		16.7%	1.3
C. Gross Domestic Products	11,402.53	100.0	14,185.41	100.0	16,903,24	100.0	19,205.79	100.0	21,867.55	100.0	17.7%	
D. Population	25.24	-	26.00	-	26.76	· _	27.52	-	28.27	· ·	· ·	-
E. GDP Per capita	451.84		545.57	•	631.61	•	697.83	•	773.63	•	14.4%	-

#### Historical Trend of GDP, 1992-1996

Source: Economic Survey 1997, Central Bureau of Statistics

The economy of Kenya has been and still is largely dependent on agriculture and tourism, which accounted for an average of 29% and 15% of GDP, respectively, in the five years from 1992 to 1996. These two key sectors have largely contributed to foreign exchange earned by the country in the same period. Tourism and agriculture sectors achieved the high annual growth rates of 28.6% and 19.9%, respectively, while the national average was 17.7%. The finance and manufacturing sectors are two other important sectors in the Kenyan economy constituting the second largest group in terms of GDP, accounting for approximately 11% and 10% of GDP, respectively, on average in the five years period. A fairly stable foreign exchange rate and moderate inflation in the country in the recent years has supported this economic situation.

As the economy grew, GDP per capita had a high average growth rate of 14.4% per annum for the five-year period, 1992 - 1996, and reached K£773 in 1996, which is equivalent to approximately US\$ 260.

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#### 1.2 Government Finance

The overall government financial situation during the past fiscal years from 1992/93 to 1996/97 is presented in the table below.

					(Unit: K	£ million)
ltem	1992/93	1993/94	1994/95	1995/96	1996/97	Average
Current Revenue (A)	3,454.71	5,039.37	6,097.82	7,181.84	7,441.42	•
Current Expenditure	3,884.17	5,912.64	5,888.84	6,745.53	7,404.05	-
Current Surplus	-429.46	-873.27	208.98	436.31	37.37	-
Capital Revenue	21.37	12.31	38.62	29.02	5.02	-
Capital Expenditure (B)	423.71	566.67	715.17	890.36	1,052.63	
Gross Fixed Capital Formation (GFCF) (C)	384.79	465.30	687.34	812.10	979.14	-
- GFCF Ratio (C / B)	90.8%	82.1%	96.1%	91.2%	93.0%	90.7%
Net Lending	76.28	35.90	29.53	-209.71	133.36	-
Overall Deficit (D)	-908.08	-1,463.53	-497.10	-215.32	-1,143.60	-
- Deficit Ratio (D / A)	-26.3%	-29.0%	-8.2%	-3.0%	-15.4%	-16.4%
External Grants (E)	440.40	485.15	661.45	450.05	787.15	
- Grant Ratio (E / B)	103.9%	85.6%	92.5%	50.5%	74.8%	81.5%
Total Borrowing (F)	1,069.75	1,155.40	295.40	-27.25	224,90	-
External Loans (Net)	318.00	-56.75	-106.50	86.30	136.60	•
Total Domestic Borrowing	751.75	1,212.15	401.90	-113.55	88.30	•
- Long-Term Borrowing (Net)	66.05	-168.80	-376.70	-355.10	-19.75	
- Short-Term Borrowing (Net)	685.70			241.55	108.05	
Total Financing of Deficit (G)	1,510.15			422.80	1,012.05	
Cash Balance (D + G)	602.07	177.02	459.75	207.48	-131.55	-

Historical Trend of Revenue and Expenditure of Kenyan Government, 1992/93-1996/97

Source: Economic Survey 1995, 1996 and 1997, Central Bureau of Statistics

As shown in the table, current revenue of the government can cover current expenditure. However, capital expenditure is hardly covered by their own funds. The government is dependent on domestic and external funds obtained in the forms of grants and loans to finance their deficit.

In financing the deficit, the external grants have been largely obtained in order for the government to be able to implement development projects for welfare of the Kenyan people. The grant ratio is quite high staying at around 81% on e average.

#### 1.3 Public Expenditure

#### 1.3.1 Central Government

The historical trend of the central government's public expenditure during the fiscal years from 1992/93 to 1996/97 is summarised in the table below.

Public expenditure can be divided into recurrent expenditure and development expenditure. Each of these can be sub-divided into net expenditure, as an original fund of the government, and appropriation-in-aid, as an external fund financed from both domestic and international finance institutions in the form of grants and loans.

Nationally, the recurrent expenditure accounts for approximately 78% of the total expenditure, and the development expenditure takes up merely 22%, on average for the five-year fiscal period. These figures do vary quite largely according to each ministry. Focusing on the development expenditure, the share of appropriation-in-aid to total expenditure averaged approximately 54%, which is considered quite high. This situation simply substantiates the fairly poor financial basis of the country and capabilities of the government in financing and implementing all the necessary development projects with their own funds.

										(Unit: )	K£ million
Item	1992/9	3	1993/9	4	1994/95		1995/5	6	1996/9	7	Average
A. GDP at Factor Cost	11,402.520	-	14,185,410	+	16,903.240	-	19.205.790	-	21,865.550	·	-
<ul> <li>B. National Public</li> <li>Expenditure</li> </ul>	5,757.614	100.0	8,112.967	100.0	9,472.089	100.0	9,544.698	100.0	10,072.679	100.0	-
Recurrent Expenditure	4,425.046	76.9	6,558.087	80.8	7,359.345	17.7	7,572.938	79.3	7,821.953	77.7	78.5
Net Expenditure	(4,309.392)	(97.4)	(6,391.560)	(97.5)	(7,034.749)	(95.6)	(7,137.005)	(94.2)	(7,451.081)	(95.3)	(96.0
Appropriation-in-Aid	(115.654)	(2.6)	(166.527)	(2.5)	(324.596)	(4.4)	(435.933)	(5.8)	(370.872)	(4.7)	(04.0
Development Expenditure	1,332.568	23.1	1,554.880	19.2	2,112.744	22.3	1,971.760	20.7	2,250.726	22.3	21.
Net Expenditure	(677.410)	(50.8)	(731.731)	(47.1)	(939.181)	(44.5)	(880.705)	(44.7)	(1,017.509)	(45.2)	(46.4
Appropriation-in-Aid	(655.158)	(19.2)	(823.149)	(52.9)	(1,173.563)	(55.5)	(1,091.055)	(55.3)	(1,233.217)	(51.8)	(53.6
Ratio of Net Expenditure to GDP (%)	5.9	-	5.2	-	5.6	-	4.6		4.7	-	5.
Ratio of Appropriation- ia-Aid to GDP (%)	5.7	•	5.8	-	6.9	-	5.7	-	5.6	•	6.
C. Capital Expenditure	423.710	100.0	566.670	100.0	715.170	100.0	890.360	100.0	1,052.630	100.0	-
Gross Fixed Capital Formation (GFCF)	(384.790)	(90.8)	) (465.300)	(82.1)	(687.340)	(96.1)	(812.100)	(91.2)	(979.140)	(93.0)	(90.1

Historical Trend of Public Expenditure of Kenyan Government, 1992/93-1996/97

Source: Development Estimates and Estimates of Recurrent Expenditure, 1992/93-1997/98 Economic Survey 1997 Central Bureau of Statistics

#### 1.3.2 Local Government

As of 1997, there are 165 local authorities, consisting of city, municipal, county and town councils. The financial situation of local authorities as a whole for the country is summarised in the table below.

According to the table, it is clearly found that current revenue can cover at least current expenditure, but not capital expenditure, even with the efforts taken to generate capital revenue by raising loans. In the five years period from 1992/93 to 1996/97, there has always been a financial deficit, which is averaged at approximately 22% of the current revenue. The way to cover an overall financial deficit is unknown. It is, however, difficult to provide local infrastructure by their own funds without external funds to finance it.

#### Final Report - Supporting Report Part I Socioeconomy

instorical field of Revenue and	mistorical frend of Revenue and Experiance of Manieral Councils 1992/95-1990/97												
Item	1992/93	1993/94	1994/95	1995/96	1996/97	Average							
Reveaue (A)	165.15	211.59	240.49	244.82	261.04	-							

#### Historical Trend of Revenue and Expenditure of Municipal Councils 1992/93-1996/97

Expenditure 118.25 157.65 204.44 236.26 273.25 -Surplus 46.90 53.94 36.05 8.57 -12.21 -**Capital Revenue** 362.15 102.07 132.93 96.98 148.50 -Capital Expenditure (B) 437.02 178.86 210.69 165.29 238.19 -Gross Fixed Capital Formation (GFCF) (C) 425.91 171.36 200.57 149.08 228.87 -- GFCF Ratio (C / B) 95.8% 95.2% 90.2% 94.9% 97.5% 96.1% -101.90 Overall Deficit (D) -27.97 -22.85 -41.71 -59.74 -- Deficit Ratio (D / A) -16.9% 17.3% -24.4% -39.0% -21.7% -10.8%

Source: Economic Survey 1995, 1996 and 1997, Central Bureau of Statistics

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#### CHAPTER 2 PRESENT SOCIOECONOMIC CONDITIONS

#### 2.1. Administrative Division

#### 2.1.1 Central Government

The administrative division is one of the important basics of the present Study. In Kenya, socioeconomic development including infrastructures are formulated and implemented on the basis of a district unit. Administrative division in Kenya comprises provinces, districts, divisions, locations and sub-locations.

Boundaries of the administrative division in Kenya have been changed year after year, being subjected to a rapid growth of population. At the time of the 1989 Population Census conducted, the number of districts was 41 (Table - 2.1.1). Since then, more new administrative divisions have been created. According to the latest information obtained, the number of districts as of 1997 is 63 (Table - 2.1.1).

It was, however, hardly possible to confirm the latest boundaries of the 63 administrative districts, although the Study Team made the best efforts under assistance of Ministry of Water Resources (MWR) and other government organisations concerned. After discussion with the Technical Committee, it was finally determined that the Study shall be based on the boundaries of the 50 administrative districts (Table - 2.1.1) obtained from "Kenya Administrative Boundary Map (Survey of Kenya, January 1996)," taking account of the availability of the necessary information and data required for the purpose of water supply and sewerage planning. Those of the divisions, locations, sub-locations, and urban centres refer to the 1989 Population Census.

The administrative divisions adopted in the Study are presented in Table - 2.1.2 and summarised in the table below.

Province	Number of Districts	Number of Divisions	Number of Locations	Number of Urban Centres
Nairobi	1	8	29	1
<u>Central</u>	5	25	129	36
Coastal	6	27	114	22
Eastern	10	44	175	42
North Eastern	3	21	64	15
Nyanza	6	34	164	24
Rift Valley	15	70	344	58
Western	4	27	80	17
Total	50	256	1,099	215

Administrative Division in Kenya, 1996

Source: The 1989 Population Census and Kenya Administrative Boundary Map, January 1996, SOK

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The Urban Centres are one of the objective areas of the Study for their piped water supply, sanitary treatment and disposal planning. The number of the urban centres is 215, according to the 1989 Population Census (Table - 2.1.3) and is defined as "all city councils, municipal councils, town and county councils, all district headquarters, and all the towns and trading centres having a minimum population of 2000 and potential for future growth".

#### 2.1.2 Local Government

There are four kinds of local governments or local authorities in the country: city, municipal, town, and county councils. The number of the local authorities by province is summarised in the table below.

		Numbe	r of Local Aut	norities	
Province	City Council	Municipal Council	County Council	Towd Council	Total
Nairobi	1	-	•	-	-
Central	-	3	6	4	13
Coastal	-	12	17	13	42
Eastern	-	7	12	7	26
North Eastern	1	3	1	5	10
Nyanza	•	8	7	9	24
Rift Valley	-	7	6	8	21
Western	-	6	9	18	33
Total	2	46	58	64	169

#### Number of Local Authorities in Kenya

Source: MOLA

In order to carry out the Study rationally and effectively, the same coding system adopted by the 1992 NWMP is used as follow.

Coding System of .	Administrative	Divisions
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Administrative Unit	Code
Province	Three digits (100 – 900)
District	Two digits (10 - 90)
Division	Single digits (1-9)
Location	First decimal figures (0.1 - 0.9)

For urban centres, a serial number is used with initial of "U".

(11nit: 1.000)

#### 2.2 Population

#### 2.2.1 Population and Regional Distributions

The historical population trend of Kenya and for each province was obtained from the projection made by the Central Bureau of Statistics in 1996, which was based on the latest national population census conducted in 1989. The results of the projection are presented in the table below. Population by district is also illustrated in Table - 2.1.2.

Kenya's population increased significantly at an annual growth rate of 2.8% for the eight years from 1991 to 1998, reaching 29.7 million in 1998. There are two major growth areas in the country. Nairobi had the highest growth rate at 4.2% followed by Rift Valley at 3.5% and the other six were around 2%.

	199	1991		1992		1993		1	199	5	199	6	199	7	199	8	Average Annual	
Province	Pop.	%	Pop.	%	Pep.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Growth Rate	
Nairobi	1.564	6.4	1,635	6.5	1,708	6.6	1,782	6.7	1,857	6.7	1,932	6.8	2,009	6.9	2,086	7.0	4.2%	
Central	3,403	13.9	3,481	13.8	3,559	13.7	3,636	13.6	3,712	13.5	3,782	13.4	3,853	13.3	3,919	13.2	2.0%	
Coast	2,031		2,086	8.3	2,142	8.2	2,195	8.2	2,250	8.2	2,303	8.1	2,353	8.1	2,404	8.1	2.4%	
Eastern	4,177		4,298	17.0	4,417	17.0	4,536	16.9	4,653	16.9	4,767	16.9	4,882	16.8	4,994	16.8	2.6%	
North Eastern	585	<u> </u>	603	2.4	621	2.4	640	2.4	657	2.4	674	2.4	692	2.4	708	2.4	2.8%	
Nyanza	4,311		1.428	17.5	4,542	17.5	4,655	17.4	4,767	17.3	4,876	17.3	4,983	17.2	5,087	17.1	2.4%	
Rift Vəlley	5,555		5,763		5,976	23.0	6,190	23.1	6,405	23.3	6,621	23.4	6,836	23.6	7,055	23.7	3.5%	
Western	2.850							11.7	3,219	11.7	3,311	11.7	3,403	11.7	3,492	11.7	2.9%	
NATIONAL					- / - /			<u> </u>	27,520	100.0	28,266	100.0	29,011	100.0	29,745	100.0	2.8%	

Population and Distribution by Province, 1991 - 1998

Source: Kenya Population Census 1989, Analytical Report Volume VII, April 1996, Central Bureau of Statistics

In terms of population distribution, Rift Valley is the most populated province with a population of more than 7 million which is followed by Nyanza of 5 million where another growing urban centre of Kisumu is located. The rapidly growing Province of Nairobi, however, has the second smallest share in the country.

#### 2.2.2 Population Density

The historical trend of population density from 1991 to 1998 by province is presented in the table below. Population density by district is further shown in Table - 2.2.1.

<b></b>																(Unit	: 1.000)
P	Azea	19	91	1992		1993		19	94	1995		1996		1997		19	98
Province	(L10 <sup>-</sup> )	Pop.	Density	Pop.	Pop.3m	Pop.	Pop. Im	Pop.	Pop. km	Pep.	Pop.km	Pop.	Pop.Am <sup>2</sup>	Pep.	Pop.km	Pop.	fop.Am
Nairobi	69.3	1,564	2.257	1,635	2.359	1,708	2.465	1,783	2.571	1,857	2.650	1,933	2.783	2,009	2.899	2,086	3.010
Central	13,236	3,403	0.257	3,481	0.263	3,559	0 269	3,636	0.275	3,712	0.280	3,783	0.236	3,853	0.291	3,919	0.296
Cosst	84,113	2,031	0.024	2,086	0.025	2,142	0.025	2,195	0.026	2,250	0.027	2,303	0.027	2,353	0.025	2,404	0.029
Fastern	154,354	4,177	0.027	4,295	0.028	4,417	0.029	4,536	0.029	4,653	0.030	4,767	6.031	4,85	0.033	4,994	0.032
North-Eastern	126,186	555	0.005	603	0.005	621	0.005	64(	0.005	657	0.005	674	0.005	693	0.005	705	0.006
Nyanza	12,507	4,311	0.345	4,425	0.354	4,543	0.363	4,655	0.372	4,767	0.381	4,870	0.390	4,983	0.395	5,052	0.407
Rift Valley	182,412	5,555	0.030	5,763	0.032	5,976	0.033	6,190	0.034	6,405	0.035	6,621	0.036	6,834	0.037	7,055	0.039
Western	8,285	2,850	0.344	2,942	0.355	1,030	0.66	3,128	0.378	3,219	0.389	3,341	0.400	3,40	0.431	3,49	0.421
NATIONAL	581,756	24,476	0.043	25,236	0.043	26,001	0.045	26,76	0.046	27,520	0.047	28,260	0.049	29,011	0.050	29,745	0.051

#### Population Density by Province, 1991 – 1998

Source: Kenya Population Census 1989, Analytical Report Volume VII, April 1996, Central Bureau of Statisti

Among the eight provinces, the highest population density has been observed in Nairobi province in the past years and reached at 3,010 persons/km<sup>2</sup> in 1998, while all the other provinces have not changed so much and stayed around at less than 500 persons/km<sup>2</sup>. The lowest is then found in North Eastern province at only 6 persons/km<sup>2</sup> where is classified into the arid and semi-arid land.

#### 2.2.3 Urban Population

In addition to the above, the major characteristics of the 215 urban centres in the country are presented in **Table - 2.1.3**. These urban centres were identified as urban areas in the results of the National Population Census 1989 with criteria of having a minimum population of 2,000 and potential for future growth. It is therefore obvious that a population size of the urban centres varies widely ranging from the smallest population of 186 in Kambu Town Centre (Makueni District) to the largest population of 1,324,570 in Nairobi (Nairobi District) in 1989.

#### 2.3 Household and per Capita Income

The income status of households in Kenya including the mean monthly income from different sources and annual per capita income by province is shown in the table below. Income status by district is presented in Table - 2.3.1.

In general, households earn higher income from wages and salaries than any other sources. Household incomes are high in the provinces with major urban centres where commerce and industry are concentrated. The Province of Nairobi has the highest mean monthly household income of Kshs 16,789, which is about 73% higher than the national average of Kshs 9,696. In Rift Valley Province and Coast Province, the average income level of households are the second highest (Kshs 12,241) and third highest (Kshs 9,893), respectively. On the contrary, the lowest mean household income is found in Western, Nyanza, and Eastern provinces. The mean monthly income of urban households (Kshs 17,673) is more than three times that of rural households (Kshs 5,130). Nationally, the share of mean monthly household income accounts for 33.6%.

Furthermore, the same trend observed by the mean monthly household can be seen the income status by a per capita income, as presented in the table.

		Annual per C	apita Income	Mean Monthly Household Income									
	Mean	Per Capital <sup>1)</sup>		Total	Non Agr	iculture Ir	noome	Agricul	ture Incor	ne			
Province Nairobi Central Coast Eastern North Eastern	Household Size	Income (Kshs)	Average (Index=100)	Income	Wages (Kshs)	Others (Kshs)	Share (%)	Agriculture (Kshs)	Crops (Kshs)	Share (%)			
Nairobi	3.7	62,565	228	16,789	13,557	2,795	97.4	436	• 2	2.6			
	5.3	22,262	81	9,268	4,489	1,572	65.4	1,604	1,603	34.6			
	5.3	32,547	119	9,893	6,034	1,625	77.4	1,028	1,206	22.6			
	5.8	16,809	61	6,572	3,046	1,138	63.7	1,812	577	36.3			
	6.1	25,504	93	9,931	3,283	1,926	52.5	4,678	44	47.			
Nyanza	5.0	19,666	72	6,750	2,920	1,457	64.8	1,712	652	35.			
Rift Valley	5.3	30,585	112	12,241	4,863	1,262	50.0	3,892	2,225	50.0			
Western	5.8	20,364	74	7,659	3,602	1,158	62.1	1,792	1,107	37.			
NATIONAL	5.2	27,403	100	9,696	4,941	1,497	66.4	2,108	1,149	33.			
- Urban	4.0	51,009	186	17,673	11,266	2,456	77.6	2,534	1,418	22.			
- Rural	5.6	21,305	78	5,130	3,307	1,250	88.8	463	111	11.			

Overview of Income Status by Province, Per Capita and Household

Source: Welfare Monitoring Survey II Basic Report 1994, Central Bureau of Statistics Notes: Per capita income – Annual Household Incomes / Household Size

#### 2.4 Social Infrastructures

#### 2.4.1 Transportation

Kenya has five major transportation systems: roads, railways, maritime transport, and air transport networks.

The port of Mombasa is the international gateway not only for Kenya but also for Uganda, Rwanda, and Brundi. Roads and railways originate from the Mombasa port. The heaviest concentration of transportation facilities is along the Mombasa-Nairobi corridor, continuing on to the western region and to the Kenya/Uganda border.

The railway networks is about 1,920 km, in total length, consisting of main lines of 1,085 km, principal lines of 345 km and branch lines of 490 km. The main line links the Mombasa port with the Ugandan boarder through Nairobi.

The total road network length is about 160,000 km, comprising classified roads under Ministry of Public Works (MOPW) of 63,000 km and local authority roads under Ministry of Local Authorities (MOLA) and various local authorities of 91,000 km. The road network system is quite similar to that of the railway but has as higher density and covers almost every corners of the country.

#### 2.4.2 Electric Power Supply

Electric power consumption in 1994 was 3,134 GWh, over 99% of which was supplied through the national grid. Of the total consumption, 44% was for the large commercial and industrial consumers, 31% for domestic and small commercial consumers, and 18% for medium commercial and industrial consumers.

The installed generating capacity was 820.8 MW, including 30 MW import from Uganda. The main type of source is hydropower, 598.5 MW, followed by thermal steam (93.0 MW), diesel (47.5 MW), and geothermal (45.0 MW).

The electric power transmission system is operated as an integrated network, with load and generation centres linked by both 132 kV and 220 kV transmission lines. The total circuit lengths of 132 kV and 220 kV lines are 1,980 km and 877 km, respectively. The distribution system is at 66 kV, 40 kV (Nairobi region only), 33 kV, and 11 kV. The country is divided into six distribution systems: Nairobi, Coast, Western, Central, Central Rift, Mt. Kenya and North Rift. Low voltage is at 415/240 V.

#### 2.4.3 Water Supply and Sanitation

Unfortunately there is no accurate statistics data regarding potable water supply and sanitation schemes, though MWR issues a "Status Report " annually for potable water supply only.

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The "National Development Plan, 1997 - 2001" states that 75% of the urban population will have access to safe drinking water, while 50% of the rural population has access to potable water from various schemes. By 1994, there were 1,779 water supply projects under major operators, consisting of 931 projects by the public sector (MWR, NWCPC, local authorities) and 848 projects by community, self-help, and NGOs.

As to sanitation, out of 142 gazetted urban areas, only 30% have sewerage system.

#### 2.4.4 Communication

Kenya Posts and Telecommunication Corporation (KPTC) currently provides both postal and telecommunication services.

In 1995, the total number of telephone exchange connections was about 250,000, with a telephone density of 9.4 lines/1,000 people. The telephone exchange capacity was about 377,000 in the same year.

Apart from the above, there were about 2,600 mobile telephones in services. Data service lines of 64 Kb/s are also available for lease by the business community.

#### CHAPTER 3 RELATED SECTORAL ISSUES AND PLANS

#### 3.1 Related Sectoral Issues

#### 3.1.1 Public Health and Hygiene Conditions

(1) Waterborne Diseases

Provision of safe and portable water, as one of the basic human needs is an important role of the government to save vulnerable population from the severe health situation. They are suffering from waterborne diseases. It was difficult to obtain comprehensive data on waterborne diseases; the only data obtained was from the "Welfare Monitoring Survey II 1996" conducted by Central Bureau of Statistics (CBS) in cooperation with World Bank and UNICEF and presented in the table below. Its shows an overview of type of sickness in the country by province including the water-related diseases such as diarrhea and malaria, but excluding the other major waterborne diseases such as typhoid. Further information by district is presented in Table - 3.1.1.

	Vomiti	Diambea	Fever/	Malaria	Cough / Cold	Wound / Injury	Measles	Skin Rash	Eye Infection	Others
Province Name	Case Population %	National Average (ladex=100)	Case Population %	National Average (Index=100)	Case Population %	Case Population %	Case Population %	Case Population %	Case Population %	Case Population %
Nairobi	6.4	68.1	47.8	92.8	23.7	2.6	-	4.6	2.4	12.3
Central	6.3	67.0	34.6	67.2	35.7	5.1	0.4	4.8	1.4	11.8
Coast	17.7	188.3	51.1	99.2	51.1	4.1	0.7	1.6	0.8	8.7
Eastern	7.7	81.9	47.1	91.5	27.7	4.1	0.2	2.1	2.0	9.1
North- Eastern	5.7	60.6	52.7	102.3	15.1	4.3	1.3	2.1	4.6	14.2
Nyanza	10.0	106.4	59.4	115.3	13.3	2.9	1.9	2.2	1.8	8.6
Rift Valley	9.1	96.8	50.1	97.3	22.9	3.2	0.6	2.6	1.8	9.7
Western	9.4	57.9	57.9	112.4	16.1	3.9	1.2	2.5	1.0	7.9
NATIONAL	9.4	100.0	51.5	100.0	21.0	3.6	0.9	2.6	1.6	9.4
- Urban	10.4	110.6	50.9	98.8	20.4	2.4	0.2	3.0	1.7	11.1
- Rural	9.2	97.9	51.6	100.2	21.1	3.8	1.0	2.6	1.6	9.1

Distribution of Morbidity by Type of Sickness by Province

Source: Welfare Monitoring Survey II Basic Report 1994, Central Bureau of Statistics

The major cause of morbidity in the country still remains fever/malaria, which is one of the waterrelated diseases, and averaged at 1.5% of the total morbidity population. The province most affected by fever/malaria is Nyanza where 59.4% of the population were affected. There is no significant difference in the incidences of fever/malaria observed between urban areas (50.9%) and rural areas (51.6%), almost staying at the same level as the national average (51.5%).

The incidents of vomit/diarrhea, an another water-related disease, ranked the third highest cause of morbidity. It accounts for 9.4% of the total morbidity population, which is quite lower than the

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incidents of fever/malaria. The province affected most by vomit/diarrhea is Coast Province where it affected approximately 17.7% of the population, which is 88% more than the national average.

#### (2) Accessibility to Safe Water and Sanitation

Public health conditions as measured by accessibility to safe water and sanitation of households is summarised and presented in the two tables below. Information by district is presented in Table - 3.1.2 and Table - 3.1.3, respectively, for safe water and sanitation.

1) Accessibility to Safe Water

Safe water includes treated surface water and untreated and uncontaminated water such as piped water, roof catchment, protected springs, and wells. However, access to safe water does not mean water reliability and availability.

	Access to	Safe Water				1	Main Sourc	es of Water				
Province Name	Access %	National Average (Index=100)	Piped Water %	River %	Lake/Pond/ Dam %	Roof Catchment %	Protected Spring %	Unprotected Spring %	Protected Well %	Unprotected Well %	Bore- hole %	Others %
Nairobi	96.2	214	95.6	2.6	-	-	-	-	0.5	-	-	1.2
Central	45.5	101	36.2	35.3	0.9	3.8	1.8	5.3	3.7	3.2	7.0	2.7
Coast	59.2	132	56.2	11.6	12.4	0.1	0.3	0.7	2.5	5.2	8.6	2.2
Eastern	35.1	78	29.3	37.4	4.6	0.5	2.1	8.1	3.2	9.2	4.0	1.4
North-Eastern	16.9	38	12.7	13.5	33.8	•	0.7	3.9	3.4	15.7	13.9	2.3
Nyanza	28.1	63	9.2	24.8	10.2	3.0	10.1	22.2	5.8	9.3	5.1	0.3
Rift Valley	41.6	93	25.0	32.4	4.1	7.0	2.6	9.9	6.9	6.1	3.9	1.9
Western	42.9	96	14.0	9.1	0.0	4.3	14.1	17.0	10.6	9.4	18.1	3.5
NATIONAL	44.9	100	32.1	24.9	5.3	3.2	4.5	10.2	5.1	6.7	6.3	1.8
- Urban	93.3	208	90.2	3.1	0.0	0.3	0.4	0.7	2.3	0.7	0.7	1.4
- Rural	32.5	72	17.3	30.5	6.6	3.9	5.6	12.6	5.8	8.2	7.7	1.9

Distribution of Households with Access to Safe Water and Main Water Sources by Province

Source: Welfare Monitoring Survey II Basic Report 1994, Central Bureau of Statistics

Nairobi province has the highest accessibility at 96.2% in the county, of which the main source of water is piped water (95.6%). The lowest accessibility of 16.9% is in North Eastern province where a large part of the land belongs to Arid, Semi-Arid Lands (ASAL) area, with the top three main sources of water for the province being lake/pond/dams (33.8%), unprotected wells (15.7%), and boreholes (13.9%), which together account for 63.4% of the total. There is quite a large difference in accessibility between urban and rural areas, with urban areas at a quite high ratio of 93.3%, which is 108% higher than the national average. In urban areas, the most main source of water is piped water (90.2%). On the other hand, the ratio for rural areas, the main source of water is the surface runoffs of rivers (30.5%).

It is assumed that the quality of water being taken from rivers is questionable and most likely it is not safe water, which means unsanitary water is being used daily for domestic purposes. The government should control water quality for water supply schemes, particularly for community water supply, on which many people of the country are relying as the main source of water.

#### 2) Accessibility to Sanitation

Access to sanitation is basically defined as the population who has the reasonable access to sanitary means of excreta and waste disposal including outdoor latrines.

	1	o Sanitation			Type of M	lain Toilet		
Province	Access t Access	National Average	Pit	V.I.P	Bucket	Water Closet	Pour Flusb	None
Name	54	(Index=100)	%	%	%	%	<u>%</u>	<u>%</u>
N. i.e. hi	98.2	122	39.6	4.6	-	26.6	27.4	1.8
Nairobi	99.3	124	90.8	2.3	0.2	2.9	3.2	0.7
Central		93	63.6	1.8	_	7.0	2.3	25.4
Coast	74.6	95	71.5	3.4	0.4	0.3	1.1	23.4
Eastern	76.6		<b></b>	1.4	2.0	0.7	-	74.6
North-Eastern	25.4	32	21.3		+	1.8	1.6	28.0
Nyanza	72.0	90	66.4	2.3	-	1.4	3.1	28.1
Rift Valley	71.9	89	65.3	1.8	0.2	+		6.9
Western	93.1	116	85.8	2.3	· ·	3.2	1.9	
NATIONAL	80.4	100	68.6	2.5	0.2	4.5	4.6	19.6
	97.6	121	50.7	5.0	0.5	20.5	20.8	2.4
- Urban - Rural	75.9	94	73.2	1.9	0.1	0.4	0.4	24.1

Distribution of Households by Access to Sanitation, Type of Toilet and Province

Source: Welfare Monitoring Survey IJ Basic Report 1994, Central Bureau of Statistics

## Population Served by Sanitation Type in Urban Centres

								Sanitati	on Type			
		haracter	Urban Po		Sewe	rage	Septic	Tank	Pit La	trine	No	· · · · · · · · · · · · · · · · · · ·
Population		Centres	(000's)	(%)	(000's)	(%)	(000's)	(%)	(000's)	(%)	(000's)	(%)
Classification	<u>(Nos)</u>	3.7	3,443		905	26.3	861	25.0	1,549	45.0	128	3.7
P>100,000	8	ļ	953		89	9.4	333	35.0	524	55.0	6	0.6
100,000>P>20,000	24	11.2			17	1.9	177	20.0	663	75.0	27	3.1
P<20,000	183	85.1	884					26.0	2.737	51.8	161	3.1
TOTAL	215	100.0	5,280	100.0	1,011	19.2	1,371	20.0	2,151			L

Source: Sewerage in Kenya, JICA 1995

The above two tables show the accessibility to sanitation in the different ways. The first table explains the accessibility by the households quoted from "Welfare Monitoring Survey II Basic Report", 1994. The next table presents the accessibility by urban population based on the actual figures for sewerage and the estimate figures for the others made by study team.

According to the survey on households, the highest accessibility to sanitation in the country is found in Nairobi Province at 98.2%, of which pit is the most used type of toilet accounting for 39.6%, followed by pour flush (27.4%) and water closet (26.6%). North Eastern Province has the lowest accessibility at 32%, with 74% of the population not using any type of toilet, followed by pit (21.3%). It is the highest ratio in the country that 74.6% has no toilet facility, compared to the national average for none accounts for 19.6%. Focusing onto urban-rural difference, in urban and rural area, 97.6% and 75.9% have the access to sanitation, respectively, and even the ratio of rural area is closed to the national average of 80.4%. In urban area, the most used toilet is pit (50.7%), followed by pour flush (20.8%) and water closet (20.5%). In rural areas, 73.2% use pit and 24.1% do not use any type of toilet.

Focusing on urban population served by sanitation, it is important to note that only 19.2% of the total urban population have access to sewerage, and most others are largely dependent on either septic tank (26.0%) or pit latrine (51.8%). Compared by population classification, the urban centres with a population more than 100,000 show the highest access percentage to sewerage of 26.3% among the other sanitation facilities, and the other urban centres with less than 100,000 show fairly low access percentage. Of the population in urban centres with sewage, 89.5% belong to urban centres with population more than 100,000. These situations show that provision of sewerage service is concentrated only in large urban centres, and most others have either no access to sewerage or are dependent on other sanitation facilities such as septic tank and pit latrine.

Although 80.4% of the households have access to sanitation at the national level, the ratio of none toilet facility still stays at 19.6% and 24.1% in the rural area. Many people still suffer from not being provided with any sanitation facilities. It is more importantly noted that the urban centres where the sanitation facility particularly sewerage is highly necessary still have low access to sewerage at 19.9% at the national level. This could be partly explained that development of water supply schemes has not been matched by a corresponding increase in sanitation facilities. This situation should be focussed on further development in sanitation sector, with a proper guideline set by the government to coordinate with water supply sector.

#### 3.1.2 Water Carrying Burden to Women

The women in Kenya are traditionally responsible for collecting water for domestic use in the households. The time and difficulty of the task varies over the country according to the geographic setting, particularly in urban and rural areas. In rural areas, not only is significant time required but the task of carrying water is very physical or the women.

Information by district is presented in Table - 3.1.4.

	Less than 5 Min.		6-30 Min. 31		31-60	Min.	61-120 Min.		More than 121 Min.	
Province	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry
Name	Season	Season	Season	Season	Season	Season	Season	Season	Season	Season
	<i>%</i>	<i>%</i>	%	%	%	%	90	<i>%</i>	%	%
Nairobi	84.8	83.2	15.2	16.2		0.6	-	-		<u> </u>
Central	43.8	34.8	46.1	52.1	7.5	9.8	2.1	2.4	0.4	0.9
Coast	38.1	33.4	47.1	34.6	10.7	14.3	3.1	7.5	0.9	10.2
Eastern	19.8	13.8	53.8	41.3	19.0	20.6	5.7	13.7	1.6	10.6
North-Eastern	15.8	17.7	42.9	27.0	16.0	14.5	6.0	7.7	19.2	33.1
Nyanza	22.8	16.5	59.7	50.9	14.4	18.5	2.8	8.3	0.1	6.0
Rift Valley	31.6	22.5	53.1	48.6	11.7	15.8	3.2	8.6	0.4	4.5
Western	19.8	14.0	63.2	58.5	13.8	20.1	3.1	6.0	0.1	1.3
NATIONAL	33.9	27.4	50.2	44.8	11.9	15.1	3.1	7.3	0.9	5.5
• Urban	77.0	73.6	20.8	21.9	1.3	3.3	0.6	0.7	0.2	0.4
- Rural	22.8	15.5	57.8	50.6	14.6	18.1	3.8	9.0	1.1	6.8

Distribution of Households by	y Time Taken fo	for Carrying Water by Province
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Source: Welfare Monitoring Survey II Basic Report 1994, Central Bureau of Statistics

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The time taken for carrying water varies significantly not only between provinces but also between the dry season and the wet season. In the North Eastern province over 30% of the households spend more than two hours fetching water every day. During the wet season, water can be collected near the homesteads. Notes the task of carrying water particularly during the dry season should not be just explained by time, but also the geographical settings of the area where the women search, collect and transport water. These situations, therefore, harm the health conditions of the women very badly. The table below summarises the major health effects to women caused by the task of carrying water.

#### Major Health Effects to Women Caused by Carrying Water

	Outline of Major Causes and Effects
•	Burdens by Long-Distance Water Carrying Water carrying requires women to bave a substantial amount of energy, but most face a shortfall in available food, particularly in rural areas. This condition usually cause the women to be malnourished, therefore, making them more susceptible to disease such as energy-sapping anaemia during pregnancy.
•	Burdens by Methods of Water Carrying Most frequently used method of water carrying by women is to carry water on their backs with a head strap, which usually causes women to have headaches and backaches. The backaches further cause sometimes deformation of the spine and, therefore, obstructs birth canal of women, which causes a risk on childbirth for both mother and child.
•	Accidents during Water Carrying Women often face the accidents during the task on water carrying, major types of which are slipped discs, paralysis, injury to carried children, broken backs, and even strangulation by the head strap.

Source: Women and the Transport of Water

One of the major issues is how to make the women and children in the rural areas free from heavy-overburden water fetching, particularly in ASAL area.

#### 3.1.3 Women in Development

Women in Development (WID) is the terms for the integration of women into socioeconomic development.

#### Potential Contribution of and Benefits to Women and Community in Water Supply and Sanitation Projects

Project Objectives	Potential Contribution	Potential Benefits
Maximum coverage at Minimum cost	<ul> <li>Voluntary contribution to construction work</li> <li>Motivation of community contribution</li> <li>Local knowledge for appropriate design</li> <li>Support for self-reliant improvement of traditional water supply and sanitation</li> </ul>	<ul> <li>More households can be served</li> <li>Avoidance of design mistakes</li> </ul>
Continued functioning of facilities	<ul> <li>Local knowledge for appropriate design</li> <li>Participation in maintenance and management</li> </ul>	<ul> <li>Avoidance of design mistakes</li> <li>More control over services</li> <li>Better functioning of facilities</li> <li>Recognition of traditional roles in modern functions</li> </ul>
Public health impact	<ul> <li>General acceptance of facilities</li> <li>Exclusive and safe use of facilities</li> <li>More time and water for hygiene, child care and fool production</li> <li>Elimination of local transmission routes of water and sanitation related disease</li> </ul>	<ul> <li>Better health for users and their families</li> <li>Improved public health</li> <li>Reduction in health costs</li> </ul>
Socio-economic development	<ul> <li>Economic use of time and energy gains</li> <li>Economic use of water including grey water</li> <li>Economic use of waste (compost and biogas)</li> </ul>	<ul> <li>Income generation and food production</li> <li>Increased time for women's organisations, household tasks, child care and education</li> <li>Enhancement of the status of women</li> </ul>
Equitable distribution of contributions and benefits	<ul> <li>Local knowledge of needs and capacities</li> </ul>	<ul> <li>Access for all</li> <li>Contributions according to capacity</li> <li>Employment of poor women</li> </ul>

Source: Participation of Women in Water Supply and Sanitation

To what extent a development project has on how considerable and favourable effects on WID are, largely depends on social and cultural backgrounds, and also on social and economic activities of women where the development project is considered to be planned and implemented. The participation of women in water supply and sanitation projects has a significant impact particularly on achieving the sustainability of operating, managing, and maintaining the water supply and sanitation schemes in the rural area, which normally provides several major benefits such as welfare, economic, health, and project benefits. The table above summarises the potential contribution of and benefits to women and community in water supply and sanitation projects.

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#### 3.2 Related Sectoral Plans and Programme

#### 3.2.1 Poverty Alleviation Programme

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The Social Dimensions of Development (SDD) is a priority policy that the Kenyan government has established to alleviate poverty as 46% of the total population still lives below the poverty line. To ensure a dynamic and interactive SDD programme, the proposed strategy advocates that all the key stakeholders effectively participate in the conceptualisation, implementation, monitoring, and evaluation. In the programme, it is importantly addressed that, at the local level, the SDD programme is to be highly strengthening the coordination and partnerships among the key stakeholders in the delivery of the SDD programme including the governments (both central governments and local authorities), NGOs, the private sector, the donors, the community-basedorganisations and other civic organisations. The SDD programme is designed to include precise identification of beneficiary/target groups, efficient reach/adequate coverage of target groups, and sound choices of indicators of vulnerability as the criteria for priority rating.

The implementation strategy and the key priority areas of intervention programmes of the SDD are summarised in the tables below.

Outline of Major Policy and Implementation Strategy
Implementing the remaining economic, structural and institutional reforms that are necessary for the efficient market oriented private sector.
Immediately implement comparable programmes for poverty reduction under the SDD programmes that a consistent with the broad objectives and targets of the economic reform framework with a focus on the structural aspects in Kenya.
Widely consult with all development partners/actors and seek broad consensus on SDD policy an implementation arrangements, refocusing all targeted poverty reduction efforts under the SDD framework, an creation of representative and participatory machinery to complement Government efforts in enhancing transparency and accountability.
Implement a dynamic and interactive SDD programme that enhances national commitment and ownersh essential for sustainable poverty reduction.
Reorient and harmonise the SDD institutional arrangements with the District Focus for Rural Developme: (DFRD) in order to make them more responsive, facilitative and open to local communities.
Consider and accommodate well through alternative SDD delivery systems, in spite of the fact that the Government considers DFRD should be the main delivery systems of the SDD programme.
Mobilise SDD financial resources from donors, private sector NGOs as well as local community actors complement the Government's limited development resources using broadly defined SDD intervention areas.
Attract new resources, financing arrangements of SDD programme will be flexible enough to perm alternative options, while existing budget system will remain an important channel for SDD resources.

SDD Policy and Implementation Strategy of Kenyan Government

Source: Social Dimensions of Development, the Government of Kenya, 1996

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Programmes	Key Priority Areas of Intervention				
Programme 1	Proper labour intensive public investment programmes.				
	<ul> <li>Increased private sector investment in the delivery of basic social service infrastructure i.e. education, bealth, water and sanitation, roads, housing and shelter.</li> </ul>				
Programme 2	<ul> <li>Women and children in development.</li> </ul>				
	Food and nutrition and population programmes				
Programme 3	<ul> <li>Promotion of employment creation, small scale enterprises in industry, agriculture and service sectors.</li> </ul>				
	Youth and school leavers development.				
	Self-help programmes for retrenched workers.				
Programme 4	• Sustainable environment and resource conservation.				
	Proper development methodologies.				
	Decentralised development.				
Programme 5	<ul> <li>Social mobilisation and sensitisation.</li> </ul>				
	<ul> <li>Development of information base for poverty monitoring and evaluation.</li> </ul>				
	Training and institutional capacity building.				
Programme 6	Rehabilitation and reintegration of displaced persons.				
	Promotion of peace and conflict resolution.				
	Promotion of good governance and protection of human rights.				
	<ul> <li>Provision of security and crime prevention.</li> </ul>				
	• Emergency relief.				

#### SDD's Key Priority Areas of Intervention Programmes

Source: Social Dimensions of Development, the Government of Kenya, 1996

#### 3.2.2 Arid and Semi-Arid Land Development Plan

The Arid and Semi-Arid Lands (ASAL) in Kenya comprises over 80% of country's total land surface; they have more than 25% of the population and over half of the livestock of the country.

The majority of ASAL population is pastoralist although the semi-pastoral and farming communities are becoming more important. Some of the new farmers are migrants in recently opened irrigation and settlement schemes. Some ASAL areas have pockets of high agricultural potential where crops can be grown successfully and, therefore, irrigated horticultural production has been encouraged with some positive results.

The long term objective of ASAL Development Policy is to improve the standard of living of the ASAL population by integrating ASAL into the mainstream of the national economy and social development in an environmentally sustainable manner, in accordance with the national goal to create employment, generate income and attain food security.

The table below summarises the major objectives of ASAL's nine areas of intervention, such as environment, water resources development, social and community development, livestock development, dryland farming systems development, small-scale irrigation development, small-scale enterprise development, infrastructure development and drought management.

#### ASAL's Key Priority Areas of Interventions

	Outline of Major Objectives of Intervention Areas
	n getation cover, soil fertility and disease control, which are soil and water conservation, afforestation, razing areas, control of diseases and supply of water to crops, livestocks and people.
Provide wat	urces Development er in sufficient quantity and quality for human consumption, livestock, agriculture and agro-foresty phasis on development of both surface and ground water sources through water harvesting and supply s.
Provide soc	Community Development ial facilities such as schools, health centres and recreation facilities with close local participation to specific local needs as perceived by the people themselves, so that the social facilities provided will lised.
strengthene	Development I the role of livestock in the pastoral and nomadic community food security systems is to be d and supplemented through the improved disease control, range rehabilitation, production of ary feed and food crops using water harvesting techniques and various agro-silvo-pastoral systems.
Continue to Systems De	rming Systems Development o develop and demonstrate low-cost outrays of technical packages through an accelerated Farming evelopment (FSD) programme, whose major components include agro-forestry species, new drough aize and sorghum varieties-the latter grown on rationing mode for feed.
Secure mor using wate	e Irrigation Development e efficient use of water for agricultural production in ASAL area where river basins are far from by r harvesting techniques of all kinds, and intensify ground water exploration in the ground wate eas to enable the production of high-value crops such as cotton, horticulture crops, fruits and so on.
Match the local resou	e Enterprise Development efforts and resources allocated to local conditions, resources and needs in order to utilise the limited trees in due consideration with the comparative advantage of alternative local centres, therefor g to increasing the level of local income, both public and private.
Provide ph	are Development ysical infrastructure such as roads, power, water, banking and credit in ASAL area to stimulate th et and the development of a cash economy, therefore making ASAL area to be self-sustaining in nt.
	lanagement b hunger in a controlled and measured way so that people will not be obliged to abandon their way o grate to towns or move into relief camps.

Source: Development Policy for the Arid and Semi-Arid Lands, 1992, the Government of Kenya.

#### 3.2.3 National Environmental Action Programme

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The National Environment Action Plan (NEAP) formally adopted by the government in June 1994 set the framework to deal with crucial urban and coastal environmental problems that needed to be urgently addressed.

#### Outline of National Environment Action Plan (NEAP)

A Maine Stratagies
<ul> <li>A. Major Strategies</li> <li>Enhance the harmonisation, implementation and enforcement of laws for the management, sustainable us and protection of the environment.</li> </ul>
<ul> <li>Provide economic incentives and penalties to encourage sustainable use of natural resources and to minimis pollution.</li> </ul>
<ul> <li>Assess and evaluate in economic terms the value of standing, unexploited natural resources and ecologica functions.</li> </ul>
<ul> <li>Institutionalise the process of environment impact assessment and monitoring for public and programmes.</li> </ul>
<ul> <li>Provide strong and effective environmental coordination and monitoring, by creating a single autonomou organisation.</li> </ul>
<ul> <li>Enhance the involvement of local communities in the management of natural resources and their livin environment. In addition, promote the participation of all parties (local communities, business, industry an NGOs) in projects and programmes for conservation and development.</li> </ul>
• Enhance environment management capacities by training professionals and raising awareness at all levels.
<ul> <li>Conduct research in a wide range of disciplines, including biodiversity, biotechnology, indigenous knowledge waste management, gaseousemissions, disaster management, human settlement development and alternativ forms of energy.</li> </ul>
<ul> <li>Maintain system of protected areas and create others to conserve biodiversity, generate income and provid recreation.</li> </ul>
<ul> <li>Address underlying causes of desertification, including socioeconomic factors, and establish mechanism t mitigate the effects of drought.</li> </ul>
<ul> <li>Formulate comprehensive land use and settlement policy to regulate human activities in order to minimis their negative impacts on the environment</li> </ul>
<ul> <li>Improve decision-making processes by developing an efficient national environment education an information system within easy reach of users in all parts of the country.</li> </ul>
• Enhance cooperation with regional and international environment programmes, treaties and agreements.
B. NEPA's Major Concerns on Water Supply and Sewerage Sectors
Be charged economic rates for water use and effluent treatment.
· Be provided basic infrastructure necessary for efficient disposal of effluents and pollutants (sewerage, etc.)
C. NEPA's Major Actions Already Taken for Water Supply and Sewerage Sectors
<ul> <li>Study done on the establishment of an authority to manage the proposed environmental legislation, includin environmental impact assessment (EIA).</li> </ul>

Source: NEAP Newsletter, August 1996, Ministry of Environment and Natural Resources

Major strategies of NEAP are summarised in the table above, with the major concerns and major actions already taken for water supply and sanitation sectors.

#### 3.2.4 National Tourism Development Master Plan

The National Tourism Development Master Plan was prepared by the Ministry of Tourism and Wildlife in cooperation with the technical assistance of the Japan International Cooperation Agency (JICA) in 1995. The main components of the master plan are threefold: (1) a long-term tourism development strategy, (2) a national tourism development master plan, and (3) a tourism development plan for priority zones. The priority tourism zones (TRs) established in the master plan are: Turkana TR, Western TR, Northern TR, Tana Basin TR, Central TR, Eastern TR, and Masailand TR.

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For the tourism development master plan, infrastructure plans were prepared and included in the five-year action programme to better facilitate basic infrastructure for tourism development. The infrastructure projects related to water supply and sanitation are summarised in the table below. All the projects listed in the five-year action programme are at the community level where most major tourism points are located. The master plan assumes that water demand from tourism sector is considered in the public urban water supply and sanitation projects and, therefore, can be absorbed.

Five-Year Action Programme for the National Tourism Development Master Plan, 1996-2000 - With a Focus on Water Supply and Scwerage Development Projects –

				(	Un <u>it f</u>	for Inv	vestm	ent C	osts: K£ n	<u>nillion)</u>
Project	Priority Tourism	Project	Total 1	nvestmet	at Costs a	k Schedi	ate 1996	2000	Completion 1	larget Year
Name	Development Area	Description	1996	1997	1995	1999	2000	Total	Before 2000	After 2000
Water Supply Projects	· · · · · · · · · · · · · · · · · · ·		0.1	0.3	0.6	0.5	0.8	2.6		
Karen Town Community	Central Tourism Region	Incremental Capacity: 1,052 m <sup>3</sup> /d	•	•	-	•	•	- 1	X	
South Limum Community		Incremental Capacity: 7,222 m3/d	L ·	•	L ·	· · ·	· · .	·	X	
Mt. Elgon Community	Western Tourism Region	Incremental Capacity: 388 m <sup>3</sup> /d	-	-	•	•	•	-	Х	
Lake Banngo Community		Incremental Capacity: 980 m <sup>3</sup> /d	L:		<u></u>	<u> </u>	<u> </u>			<b> </b>
Shimoni Community	Coastal Tourism Region	Incremental Capacity: 1,158 m <sup>3</sup> /d	·	•	] -	-	·	-		X
Funzi Bay Community		Incremental Capacity. 273 m <sup>3</sup> /d	•	1 -	-	-	1 ·	-		X
South Diani Community		Incremental Capacity: 3,800 m <sup>3</sup> /d	-	-	•	-	•	- 1	х	
Gazi Bay Community		Incremental Capacity: 525 m <sup>2</sup> /d	-	-	•	·	·	-	х	
North Mamburi Community		Incremental Capacity. 614 m <sup>3</sup> /d	· ·	1 -	-	-	·	-		X
Watamu Enlargement		Incremental Capacity: 700 m <sup>3</sup> /d	-	- 1	-	-	·	-	х	
North watamu Enlargement		Incremental Capacity: 700 m <sup>3</sup> /d	-	•	-	-	· ·	-		x
West Lamu Community	<u> </u>	Incremental Capacity: 301 m <sup>3</sup> /d	·	ŀ.	<u> </u>	<u> </u>	. <u>.</u>		X	┨
Sewerage Projects			0.5	0.9	3.1	4.5	4.7	13.7		ļ
Karen Town Community	Central Tourism Region	Sewered Area: 35 ha	•	-	·	· ·	-	-		X
_		Sewered Area: 60 ha	·	Ŀ	Ŀ	<u> </u>	<u> </u>	<u>  -</u>		<u>x</u>
Mt. Elgon Community	Western Tourism Region	Sewered Area: 9 ha	•	-	-	·	·	•		X
Lake Baringo Community		Sewered Area: 33 ha	· ·	-	Ŀ	L-	<u> </u>	· ·	l	<u> </u>
Shimoni Community	Coastal Tourism Region	Sewered Area: 43 ha	•	-	-	•	-	-		X
South Diani Community		Sowered Area: 160 ha	-	-	-	•	<b>i</b> •	-	Х	
Gazi Bay Community		Sowered Area: 18 ha	-	-	-	· ·	· ·	i -	x	
North Mamburi Community		Sewered Area: 25 ha	-	-	-	•	· ·	·		X
Watamu Enlargement	1	Sewered Area: 800 ha	·	· ·	·	· ·	·	1 -	X	
West Lamu Community		Sewered Area: 10 ha	Ŀ	-	<u> </u>	Ŀ	Ŀ	<u> </u>	<u> </u>	X

Source: The Study on the National Tourism Master Plan in the Republic of Kenya (Volume 1: Master Plan), JICA 1995 Note: Investment Costs for sewerage projects include waste disposal projects

### 3.2.5 District Development Plan 1997-2001

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A District Development Plan (DDP) 1997-2001 was prepared by each district, in line with preparing the Eighth National Development Plan 1997-2001. The latest available DDPs were collected by the Study Team to understand the priority projects of MWR and MOLA listed in DDPs. However, of the total of 60 DDPs, only 39 DDPs were collected. The others were, unfortunately, not available.

In the 39 DDPs, there are a total of 1,026 priority projects listed by MWR and MOLA including both on-going projects (452) and newly proposing projects (574), each of which accounts for approximately 44% and 56% of the total, respectively. All of these projects are presented in **Table - 3.2.1**. Of the total, 648 were found to be water-related projects including water supply

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projects (602), sewerage projects (39), and water and sewerage projects (7). Water supply projects were found to be most dominant, accounting for approximately 93% to the total.

### CHAPTER 4 FINANCIAL MANAGEMENT OF WATER SUPPLY AND SANITATION SECTOR

#### 4.1 **Public Expenditure**

### 4.1.1 Overall Situations of Public Expenditure

The historical trend of public expenditure on water supply and sewerage by MWR and MOLA is shown in the table below for the period of 1993/93 to 1996/97.

					•	•••					
									(Un	it: KE r	nillion)
hew	1992	93	1993	.94	1994	<u>95</u>	1995.5	6	1996-5	27	Average
A. Ministry of Water Resources (MWR)	122.060	100.0	141.735	100.0	257.123	100.0	261.928	100.0	266.349	100.0	<u> </u>
Recurrent Expenditure by MWR	38.018	31.1	51.063	36.0	74,767	29.1	83.572	31.9	82.135	30.8	31.8
Net Expenditure	(34.885)	(91.8)	(45.976)	(90.0)	(69.533)	(93.0)	(77,723)	(93.0)	(75.003)	(91.3)	(91.8)
Appropriation-in-Aid	(3.133)	(8.2)	(5.987)	(10.0)	(5.234)	(7.0)	(5.849)	(7.0)	(7.134)	(8.7)	(8.2)
Development Expenditure by MWR	84.042	68.9	90.672	64.0	182.356	70.9	178.356	68.1	184.214	69.2	68.2
Net Expenditure	(33.870)	(40.3)	(42.388)	(46.7)	(65.552)	(35.9)	(78.347)	(43.9)	(77.396)	(42.0)	(41.8)
Appropriation in Aid	(50,172)	(59.7)	(48.284)	(53.3)	(116.804)	(64.1)	(100.009)	(56.1)	(106.818)	(58.0)	(58.2)
Share of Water Supply and Sewerage Development	693	-	70.3	-	82.2		81.8		92.7	-	79.2
Expendituse in MWR (%)	_										
Development Expenditure for Water Supply and	58.240	100.0	63.698	100.0	149.857	100.0	145.875	100.0	170.754	100.0	•
Sewerage Sector by MWR	1										1
Net Expenditure	(27.042)	(46.4)	(36.085)	(56.7)	(56.964)	(38.0)	(68.181)	(+6.7)	(71.050)	(41.6)	(45.9
Appropriation-in-Aid	(31.198)	(53.6)	(27.613)	(43.3)	(92.893)	(62.0)	(77.694)	(53.3)	(99.704)	(58.4)	(54.1
B. Ministry of Local Authorities (MOLA)	93.706	100.0	109.339	100.0	156.089	100.0	101.408	130.0	199.359	100.0	
Recursent Expenditure by MWR	9.002	9.6	11.020	10.1	16.659	10.7	14.010	13.8	27.221	13.7	n.
Net Expenditure	8.924	\$9.1	10.961	<i>9</i> 95	16.600	99.5	13.946	99.5	27,156	<b>99.8</b>	992
Appropriation in Aid	0.078	0.9	0.059	0.5	0.059	0.4	0.064	0.5	0.065	0.2	0.
Development Expenditure by MOLA	84,704	90.4	98.319	89.9	139.430	89.3	87,398	<b>56</b> .2	172.138	86.3	<b>88.</b> 4
Net Expenditure	(20.499)	(24.2)	(19.156)	(19.5)	(30.388)	(21.8)	(38.661)	(41.2)	(40.987)	(23.8)	(26.7
Appropriation in Aid	(61.205)	(75.8)	(79.163)	(80.5)	(109.042)	(78.2)	(48,737)	(55.8)	(131.151)	(26.2)	(73.3
Share of Water Supply and Sewerage Development	81.7	.	87.6	-	83 2		89.0	.	92.0	· ·	85.
Expenditure in MOLA (%)		ļ		<u> </u>		ļ	ļ	<b> </b>			<u> </u>
Development Expenditure for Water Supply and	69.197	100.0	86.092	100.0	116.025	100.0	77,753	100.0	158,427	100.0	· ·
Sewerage Sector by MOLA			l			1					
Net Expenditute	(11.783)	(17.0)	(9.613)	(11.2)	(28.752)	(24.8)	(35.681)	45.9	(33.727)	(21.3)	(24.0
Appropriation in Aid	(57.414)	(83.0)	(76.479)	(38.8)	(87.273)	(75.2)	(42.072)	(54.1)	(124.700)	(78.7)	(76.0

Historical Trend of Public Expenditure on Water Supply Sector, 1992/93-1996/97

Source: Development Estimates and Estimates of Recurrent Expenditure, 1992/93-1997/98

Economic Survey 1997 Central Bureau of Statistics

Development expenditure largely exceeds recurrent expenditure for both MWR and MOLA. The share of development expenditure of MWR averaged 68.2% of the total expenditure in the past years of 1992/93 to 1996/97, and the share of MOLA is 88.4%. These figures are quite high compared to the share of the development expenditure of 21.5% at a national level. The appropriation-in-aid in MWR and MOLA takes up more than a half of the development expenditure, and the share is averaged at 58.2% and 73.3%, respectively. These figures are also considered quite high compared to the national average of 53.6%.

### 4.1.2 Public Expenditure by Sub-Sector

### (1) Water Supply Sector

The following summary table presents the water supply expenditure of MWR and MOLA for the period from 1992/93 to 1996/97.

		-		-							
······································					·				(U	nit: K£ n	nillion)
	199	293	198	પ્રસ	199	95	1995	.96	199	597	Average
Ministry of Water Resources (MWR)	122.060	100.0	141.735	100.0	257.123	100.0	261.938	100.0	266-349	100.0	
Water Development	2.885	5.0	1.272	2.0	28.607	19.1	21.999	15.1	32.454	19.0	12.0
Net Expenditure	(0.502)	(17.4)	(0.482)	(37 <i>.</i> 9)	(4.867)	(17.0)	(2.683)	(12.2)	(6.525)	(20.1)	(20.9)
Appropriation in Aid	(2.383)	(83.6)	(0.790)	(62.1)	(23.740)	(83.0)	(19316)	(87.8)	(25.939)	(79.9)	(781)
Training of Water Development Staff	0.155	0.3	0.095	0.1	1.120	0.7	2.737	2.9	0.594	63	0.7
Net Expenditure	(0.155)	(100.0)	(0.095)	(100.0)	(0.120)	(10.7)	(0.137)	(5.0)	(0.094)	(15.8)	(46.3)
Appropriation in Aid	(0.000)	(0.0)	(0.000)	(0.0)	(1.000)	(89.3)	(2.600)	(95.0)	(0.500)	(84.2)	(53.7)
Rural Water Supply	15,446	26.5	12.074	19.0	24.768	16.5	17.298	11.9	21.237	12.4	17.3
Net Expenditure	(7,456)	(48.3)	(5.328)	(44.1)	(18 135)	(73.2)	(15.188)	(87.8)	(18.887)	(88.9)	(58.5)
Appropriation in Aid	(7.990)	(51.7)	(6.746)	(55.9)	(6.633)	(36.8)	(2.110)	(12.2)	(2.350)	(11.1)	(31.5)
Self Help Water Sepply	0.078	0.1	0.040	0.1	0.164	01	0.056	0.0	0.031	0.0	0.1
Net Expenditure	(0.078)	()ഡ.ത്	(0.040)	(100.0)	(0.164)	(100.0)	(0.056)	(100.0)	(0.031)	(100.0)	(100.0)
Appropriation in Aid	(0.000)	(0.0)	(0.000)	დი	(0.000)	(0.0)	(0.000)	(0.0)	(0.000)	(0.0)	(00.0)
Liban Water Supply and Sewerage	4.990	8.6	3.892	6.1	4.855	3.2	3.080	2.1	5.033	2.9	4,6
Net Expenditure	(4.875)	(97.7)	(3.777)	(97.0)	(4.655)	(95.9)	(1.983)	(643)	(2.153)	(42.8)	(79.5)
Appropriation in Aid	(0.115)	(2.3)	രവട	(3.0)	(0.200)	(4.1)	(1.100)	(35.7)	(2.880)	(\$7.2)	(30.5)
Special Water Programs	6.070	10.4	3.616	5.7	5.580	3.7	3.30?	2.3	4.844	2.8	5.0
Net Expenditure	(1.272)	(21.0)	(6.641)	(17.7)	(0.940)	(16.8)	(0.827)	(25.0)	(1.909)	(39.4)	(24.0)
Appropriation in Aid	(4.798)	(79.0)	(2.975)	(82.3)	(4.640)	(83.2)	(2.480)	(75.0)	(2.935)	(60.6)	(76.0)
Wates Conservation and Pipeline Corporation	28.615	49.)	42.709	67.0	84,763	56.6	97.398	66.8	106.561	62.4	60,4
Net Expenditure	(12.704)	(44.4)	(25,722)	(60.2)	(28.083)	(33.1)	(47.310)	(48.6)	(41.451)	(38.9)	(45.0)
Appropriation in Aid	(15.912)	(55.6)	(16.987)	(37.8)	(56.683)	(66.9)	(50.088)	(51.4)	(65.110)	(61.1)	(55.0)
Ministry of Local Authonities (MOLA)	\$3,706	100.0	109.339	\$00.0	156.089	100.0	101.408	100.0	199.359	100.0	-
Local Authorities Water Supply Schemes	61.818	89.3	79.367	92.2	65.982	56.9	43.841	53.8	98.465	62.2	70.9
Net Expenditure	(9.603)	(15.5)	(8.018)	(10.1)	(24.221)	(36.7)	(21.269)	(59.8)	(22.565)	(22.9)	(27.2)
Appropriation in Aid	(52.215)	(84.5)	(71.349)	(89.9)	(41.761)	(63.3)	(20.572)	(49.2)	(75.900)	(77.1)	(72.8)

### Historical Trend of Development Expenditure on Water Supply Sector by MWR and MOLA and Project Type 1992/93-1996/97

Source: Development Estimates and Estimates of Recurrent Expenditure, 1992/93-1997/98 Economic Survey 1997 Central Bureau of Statistics

MWR has provided a large amount of subsidy to NWCPC, which takes up approximately 60% of the development expenditure of MWR, although NWCPC has its own income and manages less water supply projects than MWR. Excluding the expenditure of NWCPC, rural water supply has the highest share of 17.3%. The lowest share of 0.1% is then found to be self-help water supply. In MOLA, the expenditure for water supply sector accounts for 70.9% on an average in the total expenditure for water supply and sewerage sector.

### (2) Sanitation Sector

The following summary table illustrates the sanitation expenditure of MOLA for the period from 1992/93 to 1996/97

									(Vr	it: K£ 1	nillion)
	1992	93	1993	.94	19941	95	19955	6	1996;	97	Average
Ministry of Local Authonities (MOLA)	93,706	100.0	109.339	100.0	156.089	100.0	101.408	100.0	199.539	100.0	·
Recurrent Expenditure by MOLA	9.002	9.6	11.020	10.1	15.659	10.7	14.010	13.8	27.221	13.7	11.6
Net Expenditure	8,924	99.1	10.961	99.5	15.600	\$9.6	13.946	- 59.5	27.156	99.8	99.5
Appropriation-in Aid	0.078	0.9	0.059	0.5	0.059	0.4	0.054	0.5	0.065	0.2	0.5
Development Expressive by MOLA	84,704	90.4	\$8,319	89.9	132.430	89.3	87,398	86.2	172138	85.3	88.4
Net Expenditure	(20.499)	(24.2)	(19.156)	(19.5)	(30.388)	(21.8)	(38.661)	(44.2)	(40.987)	(23.8)	( 6.7)
Appropriation-in Aid	(54.205)	(75.8)	(79.163)	(80.5)	(109.042)	(78.2)	(48.137)	155.8)	(131.154)	(76.2)	(73.3)
Share of Water Supply and Sewerage Development Expenditure in MOLA (%)	81.7	-	87.6		83.2		89.0	-	92.0	•	
Development Expenditure for Water Supply and Sewerage Sector by MOLA	69.197	100.0	85.093	100.0	116.025	100.0	27,753	100.0	158,427	100.0	
Net Expenditure	(11.783)	(17.0)	(9.613)	(11.2)	(28,752)	(24.8)	(35.681)	(45.9)	(33.727)	(21.3)	(24.0)
Appropriation in Aid	(57,414)	(83.0)	(76.479)	(88.8)	(87.273)	(75.2)	(32.072)	(54.3)	(124.700)	(78.7)	(76.0)
Local Authorities Sewerage Schemes	7.379	107	6,725	7.8	50.043	43.1	35,912	46.2	59.562	37.8	29.1
Net Expenditure	(2.180)	(29.5)	(1.595)	(23.7)	(4,531)	(9.1)	(14,432)	(40.1	(11.162)	<u>(186)</u>	(24.2)
Appropriation in Aid	(5.199)	(70.5)	(5.132)	(76.3)	(45.512)	(90.9)	(21,500)	(59.9)	(48.800)	(31.4)	(75.8)

Historical Trend of Public E:	xpenditure on Sanitation Sector,	1992/93-1996/97
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Source: Development Estimates and Estimates of Recurrent Expenditure, 1992/93-1997/98 Economic Survey 1997 Central Bureau of Statistics

Of the total development expenditure of MOLA, the expenditure for sanitation sector accounts only for 29.1% on an average, since a large part of the expenditure of MOLA is spent for water supply sector (70.9%). Appropriation-in-aid takes up approximately 76% on an average of development expenditure, which is considered quite high.

### 4.2 Public Investment Programme, 1997/98 - 1999/2000

Although there might have been various reasons in implementing a large number of the projects as mentioned in subsequent section, it is quite necessary to consider more effective and rational way of investing and then completing the projects in a shorter period of time as possible, in line with the strategies set forth in "Public Investment Programme (PIP), 1997/98 - 1999/2000."S

The Government of Kenya prepared "Public Investment Programme, 1997/98-1999/2000" in December 1996. The programme sets forth ministries' strategies, policies and programmes. For the public water supply and sanitation sector, MWR and MOLA are the responsible ministries. Their strategies and core projects are quoted from PIP.

### 4.2.1 Investment Strategies

### (1) MWR

The MWR's strategy is divided into three components: water development, regional and irrigation development, and ASAL development. Among them, the strategy only for water development is summarised:

- 1) First priority will be given to the rehabilitation and augmentation of several water projects all over the country.
- 2) Second priority will be given to the ongoing projects and programmes which have been identified as being of high priority.
- 3) In addition, MWR will concentrate resources on rehabilitation of existing water facilities to improve on utilisation of existing capacity and increase coverage.
- 4) MWR attaches great importance to the proper management of water resources in the country to ensure their rational exploitation now and in future.
- 5) MWR will continue to encourage the private sector to upgrade its role in water resources conservancy. Community participation will be encouraged at all levels of project cycle and will thus be sensitised to develop partnership approach in the water sector. The eventual goal will be hand over the water facilities to be run by beneficiaries themselves.
- 6) MWR will encoding and promote the use of appropriate and low cost technologies that easy to install, operate and maintain to extend water coverage. MWR will gradually move away from massive projects to small scale manageable community based water projects.
- 7) MWR will work with MOH and MOLA to monitor the dangers of contamination of rivers and open water bodies.
- 8) Attention will be given to water and sanitation problems resulting from rapid growth of population coupled with inadequate effluent and waste treatment facilities, particularly in slum areas.

### (2) MOLA

- 1) MOLA will continue the target of "the Seventh National Development Plan, 1994 -96" which stresses the need to curb rural - urban migration and the need to focus development resources to small urban centres throughout the country.
- 2) The strategy to achieve the above goal is through the improvement of infrastructures, giving emphasis to markets, slaughterhouse, water supply, sewerage and roads.
- 3) The other strategy to curb rural-urban immigration is to formulate and articulate urban development policies.
- 4) MOLA promotes this goal by guiding, assisting and overseeing the administration of local authorities.
- 5) MOLA emphasises the provision of technical assistance and training of local authority staff.
- 6) MOLA's investment programme aims at supporting the growth of a strong local government system. MOLA's strategy is to make project investment programme, project identification, design, implementation and maintenance reality. The strategy is to ensure that local authorities operate sound cost recovery practices in regard to all investment.
- 7) Local authorities also provide residential and central services to people in and around their areas of jurisdiction.
- 8) MOLA will utilise funds from the proposed Social Dimension Programme to keep up such project as water supply, sanitation and upgrading settlements.

### 4.2.2 Investment Priorities

Of the number of investment priorities, only water supply and sewerage sector are summarised below:

- (1) MWR
  - 1) Provision of safe drinking water to the vulnerable groups through rehabilitation of dams and pans, boreholes and piped water schemes, to ensure full capacity utilisation of existing facilities.
  - 2) Concentrate on on-going water projects and programmes throughout the country to ensure timely completion and faster realisation of benefits by consumers.
  - 3) Planning, assessment, conservation and protection of water resources, especially the water catchment areas and water bodies.
  - 4) Development and strengthening of humans and physical infrastructure in ASAL.
  - 5) Strengthening the communities' participation and involvement in determining and executing development approaches for sustainable development.
  - 6) Completion and maintenance of rural water and urban water supplies.
  - 7) Increase the provision of water supplies in ASAL areas to speed up development.

### (2) MOLA

In regard to general investment priorities, the emphasis of MOLA is on facilitating the provision of infrastructures for local authorities. MOLA's priority in the large urban centres include among others:

- 1) Complete the on-going projects.
- 2) Undertake projects with donors and GOK commitments
- 3) Appraise project investment in small towns to promote the National Policy of decentralisation and rural/urban balance.

### 4.2.3 Core Projects

A complete list of all PIP projects prepared by MWR and MOLA are presented in Table - 4.2.1 and Table - 4.2.2, respectively. There are a total of 313 projects listed by MWR and 56 projects by MOLA. Among these projects, 27 are considered core projects by MWR and 24 by MOLA. There are 18 water-related projects listed by MWR and 8 by MOLA. These core projects are further grouped into three types of projects, namely, GOK-funded projects, external fund projects and new projects and presented as follows:

### (1) MWR

Of the 18 water-related core projects of MWR, 10 projects are GOK-funded projects, and the other 8 are external fund projects. In terms of project status, all are on-going projects.

### 1) GOK-Funded Projects

- i) Construction of Water Supplies, Livestock Programme
- ii) Livestock and Water Supplies Development, ENSD
- iii) Water Supply/Livestock Development & Marketing CDA
- iv) Construction of Water Supplies Sacho Remo/Kabasis/SeretounIn
- v) Construction of Water Supplies Rehab (SDD)
- vi) Construction of Water Supplies Luma Urban
- vii) Construction of Water Supplies Kibirichia
- viii) Construction of Water Supplies Maseno
- ix) Construction of Water Supplies Solai/Menengai
- x) Construction of Water Supplies Ngata/Kiboron
- 2) External Fund Projects
  - i) Kajiado ASAL
  - ii) Laikipia ASAL
  - iii) West Pokot ASAL
  - iv) Elgeyo Marakwet ASAL
  - v) Coastal ASAL Development Programme
  - vi) Construction of Water Supplies Garissa
  - vii) 2nd Mombasa and Coastal Water Supply
  - viii) Training of Water Personnel KWI

### (2) MOLA

MOLA lists totally 8 water-related core projects in PIP. Of these projects, 7 are external projects, and 1 is a new project.

- 1) External Fund Projects
  - i) Murang's Sewerage
  - ii) Kericho Municipal Council Sewerage
  - iii) Kapsabet Town Sewerage
  - iv) Bungoma Municipal Council Sewerage
  - v) Nairobi Water III
  - vi) Thika Municipal Council Water Supply
  - vii) Eldoret Municipal Water
- 2) New Projects
  - i) Sanitation Improvement in Nyanyuki (SDD)

### 4.2.4 Investment Costs

### (1) MWR

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Total investment costs of all PIP projects selected by MWR are estimated at approximately Kshs 2,591 million, 74% of which are budgeted for core projects totally about 664 million.

Investment costs of all the PIP projects are summarised in the table below. Further information is presented in Table -4.2.3.

							(Unit:	1,000 Kshs)
	No. of	Costs/	GOK		Externa	I Fund		Estimated
	Projects	Project	Fund	Externa	Grant	Externa	l Loan	Costs
			176,172	52,380	(27.5%)	137,945 (72.59		366,497
Water Related Core Projects (A)	18	20,361	48.1%	51.9%	(27.5%)	137,343	(12.5.1)	100.0%
			219,486	58,380	(12.10)	386,313	(86.9%)	664,179
Total Core Projects	27	24,599	33.0%	(67.0%)	(13.1%)	360,515	(00.7 //)	100.0%
			714,499	870,413	(72.50)	329,867	(27.5%)	1,914,779
Water Related PIP Projects (B)	201	9,526	37.3%	62.7%	(72.5%)	329,007	(21.3 %)	100.0%
	<u> </u>		1,239,492	602,148	(11.67)	749,685	(55.5%)	2,591,325
Total PIP Projects	313	8,279 -	47.8%	52.2%	(44.5%)	149,005	(55.5%)	100.0%

Investment Costs for Public Investment Programme, 1997/1998 - 1999/2000 - MWR -

The major highlights are:

- Most of the projects are financed through external fund. The dependency ratio of external fund to the total estimated costs is found to be high at approximately 67% for all core projects and 52% for all PIP projects. The same trend is found in waterrelated projects as well.
- Among the projects financed through external fund, core projects are found to be largely financed through external loan, whose dependency ratio is 72.5% for waterrelated core projects and 86.9% for all core projects.
- 3) Focusing on costs per project, core projects obtain more funds than the other PIP projects. Costs of each core project are averaged at Kshs 20.36 million for water-related core projects and Kshs 24.59 million for all core projects. On the other hands, the other PIP projects get much less than core projects, whose costs are averaged at Kshs 9.5 million for water-related projects and Kshs 8.27 million for total PIP projects.

### (2) MOLA

Total investment costs of all PIP projects selected by MOLA are estimated at approximately Kshs 1,176 million, 86% of which are budgeted for core projects totally about 1,007 million.

Investment costs of all the PIP projects selected by MOLA are summarised in the table below. Further information is presented in Table -4.2.4, as well as MWR.

	No. of	Costs/	GOK		External	Fund		Estimated
L	Projects	Project	Fund	External	Grant	Externa	l Loan	Costs
Water Related Core Projects (A)	8	03 171	53,870	9,500	(1.6%)	602,000	(98.4%)	665,370
Water Related Core Projects (A)	•	83,171	8.1%		91.9	%		100.0%
Total Case Designate	24	11.000	66,297	339,513	(36.1%)	602,000	(63.9%)	1,007,810
Total Core Projects	24	41,992	6.6%		(93.4	%)	_	100.0%
Weter Delated DID Designet (D)	10	25 642	90,945	9,500	(1.4%)	668,800	(98.6%)	769,245
Water Related PIP Projects (B)	30	25,642	11.8%		88.2	%		100.0%
Total DID Basiants	54	21.007	116,472	364,087	(34.4%)	695,800	(65.6%)	1,176,359
Total PIP Projects	56	21,006	9.9%	90.1%			·	100.0%

### Investment Costs for Public Investment Programme, 1997/1998 - 1999/2000 - MOLA -

The major highlights are:

- 1) Compared to MWR, the dependency ratio of external fund to the total estimated costs is found to be extremely higher at approximately 93% for all core projects and 90% for all PIP projects. A very small portion is contributed by GOK fund.
- 2) Among the projects financed through external fund, core projects are found to be largely financed through external loan as the same situations found in MWR, whose ratio is 98.4% for water-related core projects and 63.4% for all core projects. Particularly, water-related core projects are almost fully financed through external fund.
- 3) In terms of costs per project, core projects get more funds than the other PIP projects, as the same as MWR. Costs of each core project are, however, much higher than those of MWR and then averaged at Kshs 83.17 million for water-related core projects and 41.99 million for all core projects. The other PIP projects then get much less than core projects, averaging at Kshs 25.64 million for water-related projects and Kshs 21.0 million for total PIP projects.

### CHAPTER 5 POPULATION PROJECTION

### 5.1 **Projection Methodology**

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Population projection for the Study was made on the basis of the projection done up to the year 2000 by the Central Burcau of Statistics in 1996, which was based on the results of the 1989 Population Census.

For the purpose of the Study, population needed to be extrapolated to the final planning year of 2010. The projected population was thereafter adjusted by the national population framework set in the current Eighth National Development Plan 1997-2000 and the Sessional Paper No. 1 of 1994 on Recovery and Sustainable Development to the Year 2010.

In order to verify the accuracy of the projection done by the Study Team, another projection was attempted using a projection model developed by World Bank. The model incorporated average patterns of molester HIV prevalence. The results of both projections were found to be fairly close, as presented in Table - 5.1.1. The projection was, therefore, substantiated.

### 5.2 National Population

The framework of the projected population and the distribution by urban-rural area from 1990 to 2010 is summarised in the table below. Projection by district is presented in Table - 5.2.1.

According to the projection, annual average growth rate of total population will fall largely from 3.0% in the years of 1990 to 1995 to 1.6% in the years of 2005 to 2010, so the overall average will be 2.3% over the years of 1990 to 2010. The decline of the population was considered due to an increasing trend of deaths by HIV/AIDS and decreasing trend of fertility rates in the country.

	1990	1990-1995	1995	1995-2000	2000	2000-2005	2005	2005-2010	2010	Unit: million 1990-2010
	Projected Populatioa	Annual Average	Projected Population	Ancual Average	Projected Population	Annual Average Growth Rate	Projected Pepulation	Annual Average Growth Rate	Projected Population	Annual Average Growth Rate
Total Population	23.7	3.0%	27.52	2.5%	31.18	2.1%	34.55	1.6%	37.40	2.3%
Urban Population	4.07 (17.2%)	5.2%	5.28 (19.2%)	7.1%	7.44 (23.9%)	6.1% -	10.02 (29.0%)	2.8%	11.50 (30.7%)	5.3%
Rural Population	19.63 (82.8%)	2.5%	22.24 (80.8%)	1.3%	23.74 (76.1%)	0.7%	24.53 (71.0%)	1.1%	25.90 (69.3%)	1.4%

Summary of Population Projection, 1990 - 2010

Source: Kenyan Population Census 1989, Analytical Report Vol. VII, April 1996 The Eighth National Development Plan 1997 – 2001

Sessional Paper No. 1 of 1994 on Recovery and Sustainable Development to the Year 2001

The total population of the country will reach 37.5 million by the year 2010. This is approximately 58% higher than in 1990. Urban population will have an annual average growth rate at 5.3% from 1990 to 2010 and reach 11.5 million by the year 2010. The urban population

will account for approximately 30% of the total population in 2010. On the other hand, rural population will annually grow at a low rate of 1.4% on average and reach 25.9 million by the year 2010. The total rural population will account for approximately 70% of the total population in 2010. The projection of urban-rural population by district from 1991 to 2010 is presented in Table – 5.2.2.

### 5.3 Urban Centre Population

Population for 215 urban centres identified in the National Population Census 1989 was projected up to the year 2010 by applying an average growth rate estimated from the population projection of the urban centres in the National Water Master Plan 1992. Population projection of the urban centres is presented in **Table-5.3.1**.

Urban Centre			1995				2000				2005		2010				
Classification	Nos.	<b>%</b>	Population	%	Nos.	%	Population	ŝ	Nes.	%	Population	<b>%</b>	Nos.	<i>%</i>	Population	<i>%</i>	
P>100,000	8	3.7	3,443,14	65.2	11	5.1	4,875,02	65.5	17	7.9	6,991,12	69.8	19	8.8	8,259,42	71	
20,000 <p<100,000< td=""><td>23</td><td>11.2</td><td>952,45</td><td>18.0</td><td>40</td><td>18.6</td><td>1,660,20</td><td>22.3</td><td>49</td><td>22.3</td><td>2,066,89</td><td>20.6</td><td>54</td><td>25.t</td><td>2,348,67</td><td>20.</td></p<100,000<>	23	11.2	952,45	18.0	40	18.6	1,660,20	22.3	49	22.3	2,066,89	20.6	54	25.t	2,348,67	20.	
5,000×P<20,000	60	27.9	625,46	11 5	70	32.6	690,65	9.3	70	32.6	740,76	7.1	65	31.6	692,42	6.	
1,000 <p<5,000< td=""><td>87</td><td>40.5</td><td>232,10</td><td>4.4</td><td>85</td><td>39.5</td><td>207,81</td><td>2.8</td><td>75</td><td>34.9</td><td>207,25</td><td>2.1</td><td>71</td><td>33.0</td><td>197,26</td><td>1</td></p<5,000<>	87	40.5	232,10	4.4	85	39.5	207,81	2.8	75	34.9	207,25	2.1	71	33.0	197,26	1	
P<1,000	36	16 7	26,833	0.5	9	4.3	6,267	0. j		2.3	3,964	0.0	,2	1.4	2,212	0	
TOTAL	215	100 G	5,280,00	100.0	215	100.0	7,440,00	100.0	215	100.0	10,010,00	100.0	215	100.0	11,500,00	100.	

Change of Urban Centres in Number and Population, 1995 - 2010

Source: JICA Study Team

The table above summarises the total number and population of the 215 urban centres by population classification for the planning period of 1995 to 2010, which gives an overall picture of urbanisation projected for the next twenty years. More detail information of the urban centres by population classification is presented in **Table - 5.3.2**, which lists the urban centres sorted by classification and population size.

The table above also shows that each urban centre will shift from one classification to another as the population of each urban centre grows from 1995 to 2010. Total population of the urban centres less than 5,000 will go down slightly by the year 2010 at an average annual growth rate of -1.7%. But, for the urban centres more than 20,000, total population will grow significantly at a 6.0% annual average. The total population of the urban centres between 5,000 and 20,000 will remain at almost the same level both in number and population.

### - PART I : SOCIOECONOMY -

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# TABLES

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Year	1959	1996	1997
Number of Districts	41	50	63
Remarks	1989 Population Census 1/	Base for the Study <sup>3</sup>	Latest Confirmed
1	Nairobi	Nairobi	Nairobi
2	Kiambu	Kiambu	Thika
3			Kiambu
4	Kirinyaga	Kirinyaga	Kirinyaga
5	Murang'a	Murang'a	Murang'a
6			Магадиа
7	Nyandarua	Nyandarua	Nyandarua
8	Nyeri	Nyeri	Nyen
9	KING	Kliifi	K566
10			Malindi
11	Kwale	Kwale	Kwale
12	Lamu	Lano	Lamu
13	Mombasa		Mombasa
14		Taita	Taita
15	Tana River		Tana River
16	Embu	Embu	Embu
17		<b></b>	Mbecre
1	Kitui		KItui
19			Mwingi
20	Isiolo	Isiolo	lsiolo
21	Meru		Meru
22			Tharaka Nithi
23			Nyambene
	Machakos	1	Machakos
			Makueni
1	Marsabīt	Marsabit	Marsabit
			Moyale
· · · · · · · · · · · · · · · · · · ·			Garissa
		* #	Maodera
			Wajir
	5350		Kisii Nyamira
			Kisumu
			Siaya
			Suba
	Socar inyanza		Suoa Migori
		1 Agent	Kuria
· ·			Hoabay
			Rachuonyo
	Kajjado	Kaijado	Kajiado
			Kericho
			Bornet
	Laikipia		Laikipia
			Nakuru
		Narok	Narok
		Transmara	Transmara
	Trans Nzoia	Trans Nzoia	Trans Nzoia
	Uasin Gishu	Uasia Gishu	Uasin Gishu
		Baringo	Baringo
50		Ĩ	Koibatek
51	Marakwei	Marakwet	Keiyo
			Marakwe
53	Nandi	Nandi	Nandi
54	Samburu	Samburu	Samburu
	Turkano	Turkana	Turkana
55			
55	West Pokot	West Pokot	West Pokot
56	West Pokot	Bungoma	
<u>56</u> 57			West Pokot Mt. Elgon Bungonu
<u>56</u> 57 58	West Pokot Bungoma		Mt. Elgon
56 57 58 59	West Pokot	Bungoma	Mt. Elgon Bungonia
<u>56</u> 57 58 59 60	West Pokot Bungoma Busia	Bungoma Busia	Mt. Elgon Bungonia Busia Teso
56 57 58 59	West Pokot Bungoma	Bungoma	Mr. Elgon Bungonu Busia
	Number of Districts           Remarks           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23           24           25           26           27           28           29           30           31           32           33           34           35           36           37           38           39           40           41           42           43           44           45           46           47           48           50           51	Number of Districts         41           Remarks         1959 Population Census <sup>10</sup> 2         Kiambu           3         4           4         Kirinyaga           5         Muranga           6         7           7         Nyandarua           8         Nyeri           9         Kliff           10         11           11         Kwale           12         Larnu           13         Morubosa           14         Taita           15         Tana River           16         Erribu           17         18           18         Kitui           19         20           20         Isiolo           21         Meru           22         23           23         Garissa           24         Machakos           25         24           26         Marsabit           27         28           28         Garissa           29         Mandera           30         Wajir           31         Kisii	Number of Districts4150Remarks1959 Proviation Census 10Nairobi2KisambuKinnyaga3SiambuKirinyaga4KirinyagaKirinyaga5Murang'aMurang'a6NyeniNyeni9KIMIKilifi10KirinyagaKininyaga8NyeniNyeni9KIMIKilifi10LamuLamu13MombosaMombosa14TakaTaka15Tana RiverTana River16EmbuEmbu17KituiKitui18KituiMirangi20IsioloIsiolo21MeruMeru22Tharaka Nithi23QarissaGarissa24MachakosMasku25MarabitMarabit26MarabitMarabit27QarissaGarissa33KisumuKisuma34SiayaSiaya35Sorth NyanzaHoma Bay36MarokiKisuma37SiayaSiaya38JayaSiaya39KajiadoKajiado41KarichoKipisgis39KajiadoKajiado41KrichoKipisgis38Sorth NyanzaHoma Bay43LaikipiaLaikipia44NakuruNakura35Sorth Nyanza </td

### Table - 2.1.1 Historical Change of Administrative Division in Kenya

Sourcest 1) Kenya Population Census 1959, March 1994, Central Bureau of Statistics

2) Kenya Administrative Boundary Map. January 1996. Survey of Kenya

3) Kenya Parliamentary Constuencies Map. December 1997. Survey of Kenya

Table - 2.1.2 Dis	stribution by Distr	ict, 1991 - 1998
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·····			199	<u>, i</u>	199	, }	199	<u> </u>	199	.	199	s	199	6		7	195		for Populatier Average
Province	Code	District			Pop.		Pop.	-	Pop.	-	Pop.	5	Pop.	5	Pop.	-	Pop.	- 	Anoual Grown Rate
		<u> </u>	Pop.		1.635	65	1,708	6.5	1,782	* 6.7	1.657	6.7	1,932	6.8	2,009	~ 69	2,066	7.0	e alla
kaisobi Tentral	110	Nairobi Kiandw	1.641	<u>6.4</u> 4.3	1,072	4.2	1,100	4.2	1,128	4.2	1,156	4.2	1,182	4.2	1,209	4.2	1,234	41	2.45
(100	220	Stievage	417	17	426	1.7	435	1.7	414	1.7	453	1.6	461	1.6	469	1.6	477	1.6	1.9%
	230	Murang's	\$16	3.7	935	3.7	954	3.7	972	3.6	990	3.6	1,006	3.6	1,023	35	1,038	35	1.6%
	240	Nyandarisa	358	15	368	15	378	15	338	- 14	398	-14	- 408	- 1.4	-117	1.4	426	1.4	25%
	250	Nješ	668	2.7	665		692	_2.7	704	2.6	715	2.6	725	2.6	735	2.5	741	25	1.6%
	ļ		3,403	13.9	3,451	13.8	3,559	13,7	<u>3.635</u>	13.5	3,722	135	3,782	13.4	3.853	-133	3,919	13.2	2.0%
CaN	310	K3116	659	2.7	677	2.7	696	2.7	714	2.7	732	2.7	750	2.7	767	2.6	764	2.6	25%
	320	Kwale	428	1.7 0.3	439 67	1.7	450 69	1.7 0.3	450	0.3	471 73	1.7 0.3	481	1.7 0.3	491 76	1.7 0.3	501 78	1.7 0.3	2.3% 2.6%
	330 340	Lamu Mombasa	517	2.1	531	2.1	545	2.1	559	2.1	573	2.1	586	2.1	600	2.1	612	2.1	2.4%
	350	Talta	215	0.9	220	0.9	225	60	230	0.9	235	0.9	240	0.8	244	0.8	249	0.8	2.1%
	350	Taoa River	147	0.6	132	0.6	157	0.5	161	0.6	166	0.6	171	0.6	175	0.6	160	0.6	2.9%
			2,031	8.3	2,066	:13	2.142	8.2	2195	8.2	2.250	6.2	2,303	8.1	2.353	8.1	2.404	8.1	2.4%
asem	410	Farkni	402	1.6	414	1.6	425	1.6	436	1.6	448	1.6	458	1.6	469	1.6	480	1.6	2.6%
	420	lsieto	75	03	81	0.3	85	0.3	88	0.3	91	0.3	94	0.3	98	0.3	101	0.3	3.8%
	430	Kitui	437	1.5	450	1.3	+62	13	475	1.8	487	1.8	\$00	15	512	1.8	524	1.8	2.5%
	440	Masaku	743	3.0	763	3.0	783	3.0	8G4	3.0	823	3.0	842	3.0	562	3.0	80	3.0	2.5%
	450 460	Marsabit Mera	243 516	0.6 2.1	147 532	0.6 2.1	150 547	0.6	154 562	0.6 2.1	157 577	0.5 : 2.1	161 592	0.6 2.1	164 607	0.6 2.1	167 623	0.6 2.1	2.2% 2.7%
	470	Nyambene	490	2.0	505	2.0	519	2.0	534	2.0	548	z.0	552	2.0	576	2.0	590	2.0	2.75
	480	Tharaka Nithi	284	3.2	292	1.2	301	1.2	309	1.2	317	1.2	326	1.2	334	1.2	342	1.1	2.7%
	490	Maingi	279	ы	287	1.1	296	1.1	304	1.1	312	1.1	319	1.1	327	1.1	335	1.1	2.6%
	440	Makueni	805	3.3	827	3.3	549	33	870	3.3	892	3.2	913	3.2	933	3.2	954	3.2	25%
	1		4,177	17.1	4,298	17.0	4,437	17.0	4.536	16.9	4.653	16.9	4,767	16.9	4,882	16.8	4,994	16.8	2.6%
Nerth	510	Garissa	19\$	0.8	203	0.8	209	0.6	235	0.8	220	0.8	226	0.8	231	0.8	236	0.5	2.5%
Eastern	520	Manders	190	0.8	198	0.8	206	0.8	215	0.5	223	0.8	231	0.8	240	0.8	248	0.8	3.9%
	530	Wağı	197 585	0.8 2.4	202 603	0.3 2.4	206 621	0.8 2.4	210	0.8	214 657	0.5 2.4	217 674	0.8 2.4	221 692	0.8	224 708	0.8 2.4	1.9% 2.8%
Nyanza	610	Gu สมั	1,198	49	1,233	4.9	1,268	49	1,303	4.5	1,337	49	1,371	19	1,405	4.5	1,437	4.8	2.6%
	620	Kisuma	792	3.2	814	3.2	836	3.2	857	3.2	\$78	3.2	899	3.2	9i9	3.2	939	3.2	25%
	630	Siaya	698	2.9	711	2.8	722	2.8	733	2.7	744	2.7	754	2.7	763	2.6	771	2.6	1.4%
	640	Homa Bay	802	3.3	83	33	848	3.3	871	33	893	3.2	915	3.2	937	3.2	958	3.2	2.6%
	650	Migori	\$58	23	574	2.3	590	2.3	605	2.3	621	2.3	636	2.2	651	2.2	665	2.2	2.6%
	650	Nyanira	263	1.1	271	1.1	278	1.1	285	1.1	294	1.1	301	1.1	308	1.1	316	1.3	2.5%
			4,311	17.6	4,428	17.5	4,542	175	4,655	27.4	4,767	17.3	4,876	173	4.983	17.2	5.067	17.1	2.4%
Rift Valley	710 720	Kajiado Vite sinte	284 543	1.2 2.2	297 562	1.2 2.2	310 582	1.2	324 502	1.2	338 622	1.2 2.3	352 642	1.2 2.3	366 661	1.3 2.3	361	1.3	4.3%
	730	Kipsigis Laīkipia	247	1.0	257	1.0	268	1.0	279	1.0		1.1	302	11	313	1.1	325	1.1	4.0%
	740	Nakura	947	3.9	937	3.9	1,025	4.0	1,069	4.0	1,111	4.0		4.1	1,196	1	1,240		3.9%
	750	Narek	281	1.1	35	1.2	310	1.2	326	1.2	342	1.2	358	13	374	13	391	13	49%
	760	Trans Nzeia	447	18	464	1.3	<b>#5</b> ]	1.5	499	و1 إ	526	ور	534	و ۱	552	19	569	1.9	35%
	770	Uesia Gishu	509	2.1	528	2.1	547	2.1	566	1	585	- 24	\$		623	2.1	643		•
	750	Benet	521	2.1	540		559	2.2	578	1	597	2.2	ŧ		636	í			
	790	Transmaria	151		159	0.6	1 :		175	1			i			1		1	
	810	Baringo Elemen Murchmut	3.76 <sup>-</sup> 239	13 10	336 247	1.3	347 255	13 10	357	í	1	i .		ł		1		1	1
	820 830	Elgeye Marakwet Naadi	494		511		ł	2.0						2.0	1	ł	1	•	
	840	Saniburu	122		126	0.5	130	0.5	134	1			1	•		1 · · ·	ł		
	\$50	Turkana	192	1	195	0.8	197	0.8	199	1		0.7	4	1	1		1	1	
	160	West Fokot	<u>&gt;2</u>	1.0	259	1.0	367	1.0	275	1.0	282	1.0	289	10	297	1.0	30-	1.0	2.75
	<b></b>		5.555	22.7	5,763	22.8	5.976	23.0	6.190	23.1	6,405	23.3	6.621	23.4	6,835	23.6	7,055	23.7	359
Western	910	Pongonia	827		\$58	1	i	3.4	i	1	1	i		1	1	1			
	900	Busa	435	1	445	•	•		469	1	1	1	i		1	ł	Ŧ	[	1
	\$30	Katanega	1.032		1,665		1,098	1	1,130			•		1	1	1	1	1	
	940	Nibio	2,850	1	2,942	t	<u> </u>		<u>609</u> 3,128		626 3.249		1	1	î			1	1
	NAL.	<u> </u>	24.476		-	1 100.0	<u> </u>		1	1	1	106.0	T	1	1	1	1	5 100.0	

Source : Knoya Population Census 1989, Analytical Report Volume VII. April 1996, Central Beaurau of Statistics

Province	Code	District	Code	Urban Centre	Code	Location	Population	Area	Population
				Name		Name	in 1989 Census		Density
							(nos)	(km <sup>2</sup> )	(nos/km <sup>2</sup> )
Vairobi	110	Nairobi	U-1	Nairobi	110.0	Nairobi	1,324,570	693.00	1,911
Central		Kiambu	t	Githunguri	215.1	Githunguri	3,673	2.00	1,837
			U-3	Karon	211.1	Kianibaa	14,929	0.93	16,139
	i		U-4	Kiambu	211.4	Kiambaa S/ Area	6,522	2.59	2,521
			U-5	Kikuyu	216.6	Kikuyu	6,217	1.78	3,519
			U-6	Limuru	213.1	Limara	1,742	1.00	1,742
			U-7	Ndumberi	1	Ndumberi	5,763	1.25	4,610
			U-8	Ruiru	214.1		23,316	18.79	1,241
			U-9	Thika	214.4	Thika Municipality	57,603	52.64	1,09
				District Total			119,795	80.96	1,480
	220	Kirinyaga	V - 10	Baricho		Mwenia	940	0.96	98
			U-11	Kagumo		Mutira	498	0.30	1,660
				Kerugoya/Kutus		tnoi South	9,585	1.96	4,90
				Kianyaga		Baragwi	406	0.39	1,05
			1	Kimunye		Kabare	823	0.56	1,46
				Sagana	1	Kiine South	2,546		
			U-16	Wanguru	221.1	Tebere	3,093	0.68	4,58
				District Total	+		17,891	0.40	1,47
	230	Murang'a		Kandara		Moruka	1,277	1	
				Kangema		lyego	2,607		1,96
				Makuyu		Makuyu Najada	30,931		
				Maragua	1	Ngiada Mbirî	21,650		
			0-21	Muranga District Total	2.54.5	141011	57,047	+	
	240		11 22	Engineer Town	2152	Engineer	446		
	240	Nyapdarua		Mairo Inya		Kiriita	1,473		2,00
				Miharati	244.1		1,058		1,80
			1	Murungaru	245.2	-	743		1,06
				Ndunyu Njeru	•	1 -	1,141	1.22	9
	1			Njabini		Njabini	1,265	0.46	2,78
				Nyabururu	246	Nyahururu Township	14,829	17.00	8
				OI Joro Orok	242.2	Gathanji	640	5 0.46	1,3
				Ol Kalou	241.3	Ol Kalou	2,540	5 4.58	5:
			U - 31	Wanjohi	244.1	Wanjohi	82:	5 0.68	1,20
				District Total			24,97	2 26.86	·
	250	Nyeri	U - 32	Endarasha	252.3	Endarasha	2,35		
			U - 33	Karatina	254.7	Karatina Town	5,55		1
			U - 34	Mweiga	252.1	Mweiga	1,55	7 2.65	
				Naro Moru	251.2	Nato Moru	1,37		1
				Nyeri		Mukaro	91,25		
			U - 37	Othaya	255.1	Karima	4,81		· · · · · · · · · · · · · · · · · · ·
				District Total			106,91		+
Coastal	310	Kitifi		Kilifi		Tezo	14,14		
				Majengo		Mtwapa	1,98		
			-	Malindi	1	Maliodi Town	34,04		1
				Mambrui		Magarini	2,95	1	•
				2 Marikani		3 Mariakani	8,37	L L	
1	1		<u>U-4</u>	Wətəmu	314.	3 Gede	2,08		
				District Total			63,58		
Į	320	) Kwale		l Kwale		I Tshimba	3,51		1
1	1	1		5 Lungalunga		4 Lungalunga	7,92		1
			<u>U-4</u>	5 Msambweni	324.	1 Msambweni	5,68		
1				District Total			17,11	6 14.5	· ·

Table - 2.1.3 (1/5) Urban Centre and Its Population in 1989

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Province	Code	District	Code	Urban Centre Name	Code	Location Name	Population in 1989 Census	Area	Population Density
							(nos)	(km²)	(nos/km <sup>2</sup> )
Coastal	330	Lanu	U-47	Lamu	333.1	Ала	8,959	1.00	8,959
cont d)				Matondon T.C	333.1		1,728	0.45	3,840
			1	Mokowe T.C		Makowe	1,842	4.11	449
				Mpeketoni T.C		Mpeketoni	631	0.93	682
		1	U-51	•	331.0	-	1,200	0.29	4,167
				District Total			14,360	6.77	2,122
	340	Mombasa	U - 52	Mombasa	310.0	Mombasa	461,753	282.00	1,637
	350	Taita		Mwatate		Mwatate	1,659	3.68	451
	1 3.0	14114	U-54			Chala/ Kimirigo	1,039	7.93	+31 1,310
	1			Voi	352.4	-	13,202	16.05	823
			0.30	Wundanyi	353.2	Wundanyi	2,764	1.71	1,610
		* 0	11.62	District Total			28,003	29.36	954
	350	Tana River	0-57	Bura & Madogo		Madogo	603	18.19	33
				-	362.3				
				Garsen	364.1		3,186	3.15	1,011
	I I	1	U - 59		363.3	Zabaki	9,508	13.40	710
	<b> </b>	<u> </u>	<b> </b>	District Total			13,302	34.74	383
Eastern	410	Emba	U-60	1		Embu Municipality	26,525	24.00	3,105
			U-61	Runyenjes	414.4	Kagaari South	1,979	3.06	640
	<u> </u>	<b> </b>	1	District Total		L	28,504	27.06	1,053
	420	Isiolo	U - 62	Garbatula	422.1	Garbatuła	1,077	1.95	552
			U - 63	Isiolo	421.1	Central	16,824	12.82	1,313
	1		U-64	Madogash	424.2	Madogash	2,010	2.20	914
			U - 65	Merti	423.1	Merti	4,957	6.48	760
43		1		District Total			24,868	23.44	1,061
	430	Kitui		Kavati	434.1	Mutonguni	569	0.51	1,11(
			U-67	Kalungu	432.2	Endau	555	0.90	615
			U - 68	Kitui	431.4	Changwithya	9,305	6.00	1,551
				District Total			10,429	7.41	1,407
	440	Masaku	U-69	Athi River	442.3	Settlement Area	13,072	14.53	900
			U - 70	Kathiani T.C	442.2	Mitaboni	854	0.49	1,750
			U - 71	Machakos	441.1	Muputi	116,293	723.00	16
	i		U-72	Masii T.C	443.3	Masii	669	1.16	57:
			U-73	Masinga	446.2	Masinga	753	1.46	515
				Matuu	444.1	Matuu	2,849	1.30	2,193
	1		U . 75	Mitaboni	442.2	Mitzboni	655	0.54	1,220
		1		Syəthəni		Mwala	791		1,40
		1		Tala + Kangundo	1	Kangundo	10,880	, I	41
			I İ			Matungulu			
	1		U - 78	Wannoyu		Wamunyu	906	0.48	1,88
	1			District Total	1		147,722		19
	450	Marsabit	U . 79	Kargi	452.2	Kargi	4,055		2,16
			U-80		453.1		5,161		
		1	E	Laisamis		Legologo	1,215		32
		1		Marsabit		Mountain	11,113	1	1,83
				Moyale		Butiye	7,049	<b>i</b>	1,05
	ļ	1		North Horr		North Horr	2,080		95
				Soloto		Sololo	3,640		
	1		10.00	District Total	+35.4	501010			26
	H	t	1	· · · · · · · · · · · · · · · · · · ·	1.00		34,313	+	97
	-460	Meru		Meru	1	Ntima	94,947		9,00
			0-87	Nkubu	463.1	Nkuene	5,138		1,55
		ļ		District Total	1		100,085		7,23
	470	Nyambene	U-88			Athima	1,270	1	90
			U - 89		472.1	Maua	4,175		2,14
			⊥	District Total	Í	1	5,445	3.35	1,62
	450	Tharaka Nithi		Chuka		Karingani	4.258	6.93	61
	1 100	Mwingi	10.91	Mwingi	493.1	Mwingi	3,742	3.79	98

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Province	Code	District	Code	Urban Centre	Code	Location	Population	Area	Population
110011111				Name		Name	in 1989 Census	1	Density
				( ) on the		, and the	(005)	(km <sup>2</sup> )	(nos km²)
Eastern	4A0	Makueni	11.97	Kambu T.C	FLAL	Mtito Andei	186	0.20	930
contid)	4/10	1 <b>413 KAC</b> 511		Kibwezi		Kikumbulyu	2,432	1.35	1,804
(coaco)			-	Kikima		Wamunyu	1,879	2.16	\$69
			~	Kilala Market		Kibauni	611	0.21	2,875
				Machinery T.C		Kikumbulyu	390	0.29	1,354
				Mbumbuni Market	4A1.4	•	248	0.30	827
				Mitto Andei		Mtito Andei	3,854	1.38	2,803
				Sultan Hamud		Kasikeu	1,529	1.06	1,435
				Tawa Market	4AL3		755	1.80	419
			U - 101	•••		Makueni	1,294	0.55	2,374
	1		0.00	District Total			13,178	9.30	1,417
North	510	Garissa	12.102	Dadaab	518.0	Dadaab	1,228	5.26	233
Eastern	1 310	Garriss	1	Damajare		Damojare	573	3.13	183
1.4.5(4) 11	1			Garissa		Town ship	31,319	40.32	777
			U - 105		512.1	-	2,380	10.38	229
				Mudo Gashe		Modogashe	1,004	2.05	490
			0-100	District Total		Modegaste	36,504	61.13	597
	520	Mandera	11. 107	Bannisa	\$25.1	Banissa	723	8.75	83
	520	MIA DOCTA	U - 103			Elask	7,473	165.00	44
				Mandera	1	Township	22,699	25.58	887
	1			Rhamu	1	Rhamu	4,878	65.00	74
				Takaba		Takaba	1,873	10.15	185
			0.111	District Total	520.1	188403	37,646	278.48	135
	530	Wajir	U - 112		536.2	Buna	846	35.15	24
	550	vv aj 11	U - 113		534.1		2,593	E · I	162
			U-114			Eldas	1,854		584
	1			Wagalla		Wagalla	734		48
	1		0-115			Wajir Township	19,382		146
			0-110	District Total	332.4	wajir rownsup	25,409		140
	610	Gusii	U - 117		615.0	Kisii Municipality	44,149		1,299
Nyanza	010	Gash		Ogembo		Majoge Chache	899		4,086
			0.119	District Total	017.1	Majoge Cascae	45,048		1,316
	620	Kisumu	11 110	Ahero	6211	South East Kano	9,097	+	2,893
	020	Kisueki		Kisumu		Township	192,733		1,367
			- <b>1</b>	Maseno		North East Kano	3,331		519
				Muhoroni	1	Muboroni East	9,538		1,743
1			0 - 122	District Total	010.2		214,699	+	1,376
	(10)	<u> </u>	U - 123		6712	South Alego	2,922		3,594
	630	Siaya		Boado		East Ungenya	1,936		
			U - 124			East Alego	16,103		
5						Ukwala	1,083		563
	1			Ukwala Usenge T.C	1	West Yimbo	1,035		5,859
				-	•	East Gem			703
			<u>U - 128</u>		033.2	East Gen	2,141		1,283
			1	District Total	6117	Hama Bay	25,433		
ł	640	Homa Bay		) Homa Bay ) Kendu Bay		Homa Bay North Karachuonyo	23,335	1	1,290 1,845
				1 · ·					t
1				Moita	4	Gembe	4,497		
				2 Ndhiw2		Kanyamwa / Kosewe	1,611		
			0-13.	B Oyugis	044.4	Central Kasipul	4,933		
				District Total	1	Cont Cata	37,070		<b></b>
	650	Migori		Awendo/Sare		East Sakwa	6,983	1	
l				5 Kebancha		Bukira East	2,082		1
1				5 Migori		Suna Cental	12,27	1	
				7 Nyabikaye		Bukira West	3,650		1
			U - 13	8 Rongo	651.2	Central Kamagambo	3,40		· · · · · · · · · · · · · · · · · · ·
				District Total	<b>_</b>		28,39		
I	660	Nyamiria		9 Keroka		East Kitutu	2,32		
1			U - 14	0 Nyamira + Kebirigo	665.2	Ekerubo	6,33		
1				District Total		J	8,65	3.68	2,35

### Table - 2.1.3 (3/5) Urban Centre and Its Population in 1989

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The Aftercare Study on the National Water Master Plan

Tables

Table - 2.1.3 (4/5)	Urban Centre and Its Population in 1989

Province	Code	District	Code	Urban Centre	Code	Location	Population	Area	Population
				Name		Name	ia 1989 Census		Density
			L			······	(nos)	(km²)	(nos/km <sup>2</sup> )
Rift Valley	710	Kajiado	U - 141	Kajiado		Ildamat	6,326	31.00	204
			Ł	Magadi		Magadi	3,139	0.59	5,320
				Namanga		Namanga	4,710	4.18	1,122
			U - 144			Ngong	8,775	3.86	2,27.
				Oloitokitoki		Odomongi	5,922	22.56	26
			<u>U - 140</u>	Ongata Longai	712.3	Ngong	17,288	9.45	1.82
		151 - 1 - 1 -	1	District Total Keduwa	734.3	Kedowa	46,160 357	71.63	64 15
	720	Kipsigis	1.	Kericho		Kericho Municipality	48,511	2.38 8.00	6,06
				Kipkelion		Kipchorian	2,319	6.97	38
			U - 150			Kisiara	1,575	0.66	2,38
				Londiani		Londian	3,988	6.59	2,50 60
			U - 152			Techoget	3,725	2.16	1,72
			0.152	District Total			60,475	25.86	2,33
	730	Laikipia	U - 153	Nanyuki	731.5	Nanyuki	24,070	26.65	90
			1	Rumuruti		Rumaruti	2,434	9.26	26
	1		1	District Total			26,504	35.91	73
	740	Nakuru	U - 155	El Burgon	747.3	Elburgoa	12,072	4.53	2,66
			U - 156			Gilgil	14,304	3.87	3,70
			U - 157	Moto		Molo	11,175	4.13	2,70
				Naivasha	744.1	Naivasha	34,519	9.89	3,49
			U - 159	Nakuru	749.0	Nəkuru Municipality	163,927	103.00	1,51
			U - 160	Njoro	746.1	Njoro	9,026	6.88	1,31
			U - 161	Rongzi	745.2	Rongai	908	0.78	1,16
			<u> </u>	District Total			245,931	138.06	1,78
	750	Narok	E C	Nairagie (Enkare)		Keekonyoike	543	0.33	1,67
			<u>U - 163</u>		752.9	Ololtoto	11,629	9.00	1,29
			<b>_</b>	District Total			12,172	9.33	1,30
	760	Trans Nzoia	U - 164		· · · · ·	Kitale Municipaliy	56,218	91.80	61
	770	Uasin Gishu		Burn Forest		Ofare	2,041	3.00	68
			0 - 166	Eldoret		Kiplombe	111,882	89.27	1,25
			1			Kapseret			
					1	Tulwet Kapsoya			
	1		11 161	Lemok		Kapseret	3,444	7.73	44
			1	Magoon		Ngeria	566	1.60	44 35
		1	í	Moi"s Bridge		Moi's Bridge	2,833		2,30
			U - 170	1 · ·		Kapseret	5,732		40
			U - 171		772.1		1,037		98
				Turbo		Turbo	3,096		4,6,
		1	1	District Total			130,631	116.76	<b>J,</b> 11
	780	Bornet	U - 173	Bomet	782.4	Ekwen	765		49
	790	Transmara		Kilgoris	+	Moitanik West	5,059		1,45
		1		Lolgorian		Siria East	1,608		52
		l	U- 176	Nkararo	792.2	Siria West	647	1.41	4
				District Total			7,314	7.94	92
	810	Baringo	U - 177	Arabal	818.0	Muchongoi	701	2.38	25
			U - 178	Eldama Ravine	814.5	RAvine	6,831	4.67	1,4
	ĺ		U- 179	Kabarnet		Kabarnet Mosop	9,268	7.48	1,2
			1	Maji Mazuri		Maji Mazuri	6,815		2,8
	1			Marigat		Marigat	3,887		1,1
	1		<u>U - 182</u>	Mogotio	815.1	Lembus Soi	3,182	5.36	5
		ļ. <u>.</u>	<b>_</b>	District Total	1		30,684	25.56	1,2
	820	Elgeyo Mərəkwet	U - 183	1		Irong	4,658	2.51	1,8
		1	U - 184	Tambach	822.4	Kiptuilong	999		7
		ļ	ļ	District Total	L		5,657	3.78	1,4
	830	Nandi		Kapsabet + Baraton	832.2	Chemundu	10,537		7:
			U - 186	Nandi Hills	831.3	Nandi Hills	1,317		2,2
				District Total	1		11,854	14.58	8

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Province	Code	District	Code	Urban Centre	Code	Location	Population	Area	Population
				Name		Name	in 1989 Census		Density
							(nos)	(km²)	(nos km²)
Rift Valley	840	Samburu	U - 187	Baragoi	843.8	Baragoi	795	22.00	-
(cont'd)			U - 188	Maralal	841.4	Townshio	8,962	13.58	64
• •	1		U - 189	Wamba	842.1	Wamba	3,531	43.00	
				District Total			13,288	78.58	1
	850	Turkana	U - 190	Kakuma T.C	851.5	Kakuma	2,174	3.12	6
			U - 191	Kalokol	853.3	Kalokol	2,485	4.27	5-
		1	U - 192	Kapendo T.C	855.1	Lomeko	1,340	3.82	3.
			U - 193	Katilu T.C	854.1	Katilu	715	2.83	2:
	1		U - 194	Lodwar		Lodwar Town	13,619	6.53	2,0
			U - 195	Lokitaung	852.3	Ngissiger	4,201	3.15	1,3
				District Total			24,534	23.71	1,0
	850	West Pokot	U - 196	Chepareria	862.1	Kipkomo	767	0.74	1,0
			U 197	Kapenguria	861.1	Kapenguria	7,729	6.58	1,1
			U - 198	Makutano	861.4	Mnangei	6,134	0.61	10,0
	1		- [	District Total			14,630	7.93	1,8
Western	910	Bungoma	U - 199	Bungoma	912.6	Musikoma	26,805	35.00	7
	i.		U - 200	Chapatais	916.1	Chaptais	2,467	3.61	6
			U - 201	Kapsakwony	918.1	Kapsokwony	592	1.19	
			U - 202	Kimihli	913.1	Kimilili	5,483	4.00	1,3
		1	U - 203	Mawalie + Malakisi	911.4	South Malakisi	2,271	4.91	4
			U - 204	Sirisia	911.3	Sirisia	944	2.40	
			U - 205	Webuye	914.2	Webuye	27,758	12.58	2,
				District Total			66,320	63.67	),(
	920	Busia	U - 206	Busia	925.1	West Teso	20,781	2.18	9,
	1		U - 207	Malaba Town	921.2	Cental Teso	2,734		2,
			U - 208	Nambale	922.2	Central Bakhayo	2,284		<u> </u>
				District Total	1		25,799	4.74	5,
	930	Kakamega	U - 209	Butere	931.2	Central Marama	2,369		1,
		_	U - 210	Kakamega	939.0	Kakamega Municipality	58,862		1
Į			U - 211	Mumias	932.5	Central Wanga	23,668	<b></b> ```	• ···
				District Total			84,899		
	940	Vihiga	U - 212	Chavakali	941.2	West Maragoli	420		
			U - 213	Luanda	944.2	West Bumyore	3,361	1	
1			U - 214	Mbale		Edzava	2,871	1	
			<u>U - 215</u>	Vihiga + Majengo	943.1	Cental Maragoli	4,335	·	
				District Total		1	10,987	6.42	1,
TOTAL	1						3,955,543	3975.96	

 Table - 2.1.3 (5/5)
 Urban Centre and Its Population in 1989

Source : Kenyan Population Census 1989, Central Bureau of Statistics

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Tables

Table - 2.2.1	Population a	and Density by	District,	1991 - 1998
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Province Nairotsi Central	Code	Diszier	Area		91	195		19	ا وو	19	94 I		>>s	19	K6	15	207	r	998
		193210	6.97		Pop. Lm		Pop.Am <sup>2</sup>		Popta	Pop.	Pop.Am <sup>2</sup>	Peo.	Pop.1m2	Pop.	Pop.1m	Pop.	Pop.Am	Pop.	Pop.km
	110	Naitobi	693	1.554	2.257	1.635	2.359	1.708	2.455	1.782	2571	1.657	2.663	1.932	2.786	2,009	. 899	2.666	3.01
	210	Kimba	2,587	1.044	0.4(4	1.072	0.414	1.100	0.425	1,128	4.215	1,156	0.417	1,182	0.457	1.309	0.467	1.234	0.47
	220	Kirinyaga	1.485	417	0.261	426	0.267	435	0.533	4+4	0.299	453	0.305	461	0.319	469	0.315	472	0.3
ľ	280	Muranga	2525	936	0.363	\$35	0.370	951	6.378	972	0.365	990	0.392	6,006	0.395	1,623	0.4)5	1.038	0.41
ł	240	Nyandarua	3, 973	355	0.106	365	0.109	378	0.112	388	6.115	395	0.)16	-106	0.121	417	0.134	426	612
i	≾≎	Nati	3.266	668	0.355	680	0.208	692	0.212	794	0.216	715	0.219	725	0.222	135	0.225	744	0.22
ļ	{		13.236	3,403	0.257	3,451	0.263	3,559	0.269	3.636	0.275	3.712	0.280	3,782	0.255	3.453	0.291	3,919	0.29
Jeast -	329	666	13,016	659	0.051	677	0.052	696	0.054	71-	0.055	732	0.056	750	0.055	767	0.059	764	0.06
I	320	Kwale	8,260	426	0.052	439	0.053	450	0.054	450	0.056	471	0.057	481	0.058	491	0.969	501	0.06
I	330	Lamo	6.616	కు	<b>0</b> .(10	67	0.010	69	0.010	71	0.019	73	0.011	75	0.011	76	0.011	78	0.01
	340	Morahasa	282	517	1.633	531	1.883	545	1.933	559	1.982	513	2.032	\$56	2.078	600	2.126	612	2.1
I	350	Trita	16,965	215	0.613	230	0.013	225	0.013	230	0.014	235	0.014	240	0.014	244	0.014	249	0.0
i	360	Tana River	38,782	147	0.004	U2	0.004	157	0.004	\$61	0.004	166	0.004	171	0.004	175	0.005	150	0.0
			84,333	2.031	0.624	2:386	0.035	2142	6.03	2,195	0.006	2,250	0.027	2,303	0.027	2.33	0.008	2.404	9.0
astern	410	Emba	2,825	492	0.143	41-1	0.148	43	0.152	4.36	0.155	448	0.160	458	0.163	469	1 1	460	0.1
	420	Isiola	25,604	78	0.003	81	0.003	క	0.003	55	0.003	<b>9</b> 1	0.004	91	0.004	96	0.004	191	0.00
	430	Kinai	19,692	437	0.022	- 459	0.023	462	0.023	475	0.011	457	0.035	500	0.025	512	0.026	524	0.0
	440	Masato	6,249	743	0.119 0.119	763	0.122	783	0.125	634	0.129	\$23	0.132	842	0.135	662	0.138	880	{
	450	Marsabit	72,590	143	0.002	147	0.002	150	0.002	154	0.002	157	0.002	161	0.002	164	0.002	167	0.0
	\$60	Meru	3,523	\$15	0.146	532	0.151	547	0.155	562	0.150	577	0.164	592	0.168	607		621	0.1
	470	Njambene	4,066	490	0.121	505	0.124	519	0.128	531	0.131	548		\$62	0.138	576	5 I	590	0.3
	480	Tharaka Nibi	2,295	264	0.124	292	0.127	301	0.131	309	0.135	317	0.138	326	0.142	334	ł I	342	
	490	Meingi	9,911	279	0.028	267	0.039	296	0.030	304	0.031	312	0.031	319	0.032	327	i 1	335	
	44.7	Mal utai	7,719	85	0.104	827	0.107	849	0.110	870	0.113	892	0.116	913	0.115	933	6,121	554	0.1
	<b>↓</b>		154,354	\$177	0.027	4.295	0.028	4.417	0.029	4.536	0.079	1,653	0.030	4,767	0.031	4.682		4,954	0.0
North-	510	Garissa	43,392	195	0.005	303	0.005	209	0.005	213	0.005	220	0.005	226	0.005	231		236	
Eastern	520	Mandera	25,871	190	0.007	198	800.0	206	0.008	215	0.008	223	•	231	0.009	240	1	248	1
	530	Wajir	56,923	197	0.003	202	0.004	206	0.004	210	0.064	214		217	0.004	221		224	****
	-		126,186	555	0.005	603	0.005	6.1	0,005	640	0.005	657		674	0.005	69:		708	<u> </u>
Njanza	610	Gusii	1.252	1,198	0.957	1.233	0.985	1,268	1.013	1,303	1.041	1,337		1,371	1.095	1,405		939	
	6:0	Kisama	2.077	792	0.361	814	0.392	836 722	0.403	857 733	0,433	878 741		899 754	0.433	919 763		771	
l i	630	Sizya	2,524	698 800	0.277 0.25 <b>3</b>	711 835	0.282 0.266	548	0.286	535 871	0.250	893	1	915	ł	937		958	
	640 630	Homa Bay	3,195 2,603	555		574	0.220	590	0.227	505	0.232	621	1	636	1	651		656	ł
	560	Mgori Nyamira	946	:63	0.275	271	0.286	278	0.294	266	0.302	294	1 1	301		308		316	1
	<u> </u>		12.507	4,311	0.345	4.428	0.354	4,542	0.363	4.655	0.372	4,767	0.361	4.876	T	4,983	1	5.057	
Rift	710	Kajada	21.756	284	0.013	297	0.014	320	0.014	324	0.015	33		352	0.016	1	1	361	
Valley	720	Kipsigis	2.569	543	0.211	562	0.219	552	0.227	602		623		612		1	1	681	
	730	Laikipia	9.162	217	0.027	257	0.028	268	0.029	279	0.030	291	•	302		313		325	
	740	Nakoru	7,190	947	0.132	967	0.137	1.028	0.143	1,069	0.149	1.111	0.155	1.15+	0.161	1.19	0.166	1.240	0.1
	750	Narok	15,128	281	0.019	:95	0.020	310	0.020	326	0.022	343	0.023	35 8	0.024	374	0.035	393	0.0
	760	Trans Nuola	2.407	447	0.151	464	0.158	451	0.195	499	0.202	510	0.209	\$34	0.216	\$51	0.223	565	0.2
	770	Usein Gisbu	3,218	509		525	0.164	547	0.170	566	0.176	585	0.152	60-	0.188	623	0.194	612	0.2
	750	Benci	2.371	521	0.230	540	0.226	559	0.236	\$78	0.244	591	0.252	516	0.260	630	0.266	ಕು	0.2
	790	Transmara	2.874	មរ	0.053	159	0.055	167	©.058	175	0.061	18-	0.064	193	0.067	20;	2 0.079	21	0.0
	620	Buringo	10.954	336	0.030	336	0.031	347	0.032	357	0.033	36	P 0.034	377	0.034	387	0.035	397	0.0
	820	Elgeyo Marakwet	3,649	239	0.078	247	0.061	- 35	0.084	262	0.(85	270	0.069	278	0.091	28	5 0.093	292	0.0
	630	Nandi	2,763	154	0.178	511	0.164	528	0.190	545	0.196	56	0.202	\$75	0.208	594	1	611	1
	840	Sambaru	20,8%	122	0.006	326	0.006	130	0.006	134	0.006			141	0.007	14	•	1#	1
	<b>B</b> \$0	Turkana	69,146	192	6.003	195	0.003	197	0.003	199	0.003			1	1	- 20		- 20	
	850	West Polot	<b>B</b> ,937	252	0.026	<u>- 259</u>	0.029	267	0.030	275		28		289				30-	
	!		182,412	5.555	0.03)	5.763	0.032	<u> </u>	0.033	6,19)	<u> </u>			6.621	1	1		7.05	
history	910	Sungersa	3,072	827	0.269	858	0.279	889	0.269	920	0.299	95	1 0.320	962	0.330	•		1.04	
	920	Busia	1.652	435	0.263	446	0.270	458	0.277	+69	0.384	45	0.291	493	l] 0.297	\$00	0.304	52	
	930	Kalamega	3,020	1.652	0.342	1.955	0.353	2.096	0.364	1.130	0.374	1	1	1.195	6.396	1.22			
	5 #)	Vibiga	543	556	1.027	573	1.060			*					+			67	
		i	8,285	2859	0.344	2,942	0.355	3,036	0.366	1 3126	0.376	3.21	9 0.389	3.31	0.400	3.80	3 0.411	3,49	<u>, </u> ,
ATIONA			551,786	24,476	0.042	25.236	0.043	26.001	0.645	26,762	0.046	27,52	0.047	28,266	s 0.049	29.01	1 0.050	29,74	5 0.4

Source : Kenya Population Census 1989, Analytical Report Volume VII, April 1996, Central Beaurau of Statistics

		Mean		rapita Income		Me	ean Monthly I	lousehol			
Province	District	Household	Per capita 1)	National	Total	Non Age	riculture Incon	anc	Agnee	ulture Income	]
Name	Name	Size	Іпсоте	Average	Income	Wages	Others	Share	Agriculture	Crops	Share
L'arne	Pane	3125			(Ksh)	(Ksh)	(Ksh)	(%)	(Ksh)	(Ksh)	(%)
	H		(Ksh)	(Index=100)	16,789	13,557	2,795		436	2	2.6
Nairobi	Nairobi	3.7	62.565	228		3,953	1,844	57.2	1,380	2,965	42.8
Central	Kjambu Ninjayam	4.8	25,170	92 59	10,143 5,986	3,953	1,844	63.2	1,201	1,602	36.8
,	Kirinya <u>g</u> a	5.1	16,078	59 99	5,935	7,451	1,237	80.7	1,567	651	19.3
	Murangia Nuondamia	\$.9 5.7	27,011 20,548	75	9,497	3,583	1,540	53.9	2,760	1,615	46.1
	Nyandarua Nyan	5.7 5.3	20,548 16,034	59	5,898	3,448	931	64.2	1,714	755	35.8
,	Nyeri	5.3	22,262	\$1	9,268	4,489	1,572	65.4	1,604	1,603	34.6
	Ki56	6.2	12,202		4,492	2,249	1,330	79.7	750	162	20.3
Coast	Kuale	6.2 5.8	37,551	137	15,070	5,204	1,313		2,825	5,728	56.8
l I	Lanu	3.3 4.7	32,167	117	10,321	6,859	1,753	83,4	697	1,012	16.6
l .	Lamu Mombasa	4.7	57,011	208	14,252	11,935	2,249	\$9.5	69	0	0.5
i	Taita	4.4	15,208	1	3,526	1,896	1,043	\$3.3	514	74	16.7
i	Tana River	4.2 6.3	30,210		11,023	6,075	2,127	74.4	2,596	224	
l	I dila presi	5.3	32,547	· · · · · · · · · · · · · · · · · · ·	9,893	6,034	1,625	77.4	1,028	1,206	
Eastern	Embu	6.0	17,997		7,995	4,221	1,417	1		605	F
Eastern	biolo	5.3	13,685		3,543	2,913	293		1 1	32	
1	Kitui	5.1	22,769		5,628	2,363	1,559		F F	125	1
6	Masaku	5.6	15,999	1	6,307	3,112	1,088	1		492	1
í	Marsabit	6.1	9,910	35	3,745		557	1	1 1	214	
1	Meru	6.0	19,499	71	9,321	4,537	1,115			1,373	4
1	Nyambene	6.0	19,499	71	9,321		1,115	+		1,373	
1	Tharaka Nithi	6.2	9,630	35	4,256					834	1
1	Mwingi	5.1	22,769		5,628		•		F		
l	Makueni	6.2	11,238	41	5,520						
I		5.8	16,809		6,572					577	<u> </u>
North-Eastern	Garissa	5.8	32,567								1
	Mandera	6.7	22,642		-						
1	Wəjir	5.9	20,658								
I		6.1	25,504								
Nyanza	Ousii	5.7	23,733		1 · · ·		1	1			
	Komu	4.9	20,774		· ·						
1	Siaya	4.3	19,559							-	
	Нотта Вау	4.4	16,548								
l	Migori	5.3	19,498			1			L		
1	Nyamira	5.7	16,230								· •
	- <b> </b>	5.0	19,665								
Rift Valley	Kajiado	4.7	34,721								
	Kipsigis	5.6	29,415		-			+			1
1	Lzikipia	5.8	23,926 21,790				1 .	1			
1	Nakuru Nasala	4.3 5.6	39,213							•	
	Narok Trans Nzola	5.6	52,922		1						
1		5.7	52,758	-		· · ·	•	•			1
1	Uasin Gishu Bomet	5.2	25,823		1	-	(	1	3 5,774	1,172	2 61.7
1		5.9	39,213			F				2 1,233	3 38.1
	Transmara Baringo	5.6	27,556				1		5 2,924	272	2 33.5
l	Baringo Elgeyo Marakwet		17,987						2 2,600	0, 790	
	Elgeyo Marakwet Nandi	5.8	20,934					1	.1 3,057	7 900	0 39.9
Į	Nanda Samburu	5.0	5,991	1	E			3 56.2	2 1,160	) <b>1</b>	
1	Sanburu Turkana	5.2	13,283						.7 896	s 48	
	Turkana West Pekot	5.5	33,693			1		<u>5 63.</u> 1	1 3,201	1 2,085	
1	WESE LONG.	5.3	30,58				3 1,262	2 50.0	0 3,892		
Western	Bungoma	6.6	15,466				2 1,238	8 54.5	5 2,257	1	
Western	Busia	5.5	13,07				1	0 64.			1
1	Kakaroega	5.5	27.03				1			i	
ł	Nihiga	5.8	20,11								
1	· · · · · · · · · · · · · · · · · · ·	5.8	20,36				2 3,158	8 62	1 1.792	2 1,10	07 37
<u></u>								- T		5 1.149	9 33
NA	TIONAL	5.2	27.40	3 100	/ 9,074	1 7.7	1 4,37	· · ····			

### Table - 2.3.1 Overview of Income Status by District, Per capita and Household

Source: Welfare Monitoring Survey II Basic Report 1994, Central Beaurea of Statistics Notes: 1) Percapita income - Annual Household Incomes / Household Size

51.009

21.305

4.0

5.6

- Urban

- Rural

17.673

5.130

186

78

11.266

3.307

2,456

1.250

77.6

88.8

2,534

463

1.418

111 11.2

22.4

Table - 3.1.1	Distribution of Population by Type of Sickness by District
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Province Name	District Name	Vorsit / I	Diamhoea	Fever 1	Malaria	Cough / Cold	Wound / Injury	Measles	Skin Rash	Eye Infection	Others
		Case Population	National Average (Index=100)	Case Population Se	National Average (Index=100)	Case Population %	Case Population %	Case Population	Case Population St	Case Population S	Case Population &
airsbi	Nairobi	6.4	68.1	47.8	92.8	23.7	2.6	,	4.6	2.4	12
เคาะเป	Kiambu	6.0	63.8	39.3	76.3	27.4	3.8	0.2	75	2.2	13
	Kiriayaga	6.3	67.0	45,4	88.2	29.2	55	0.4	5.1	C.6	-
	Moranga	3.0	31.9	35.7	69.3	35.2	\$,\$	Q.8	3.6	1.8	11
	Nyandaraa	13.8	146.8	19.7	38.3	46.3	3.9	0.4	35		1:
	Nyeri	5.8	72.3	21.7	42.1	52.6	2.8		2.4	1.0	1:
		6.3	67.0	34.6	67.2	35,7	5.1	0.4	4.8	1.4	1
ica:st	5316 <b>5</b>	12.9	137.2	51.8	100.5	20.6	55	1.0	1.8	0.4	:
	Kurale	24.3	258.5	55.3	108.9	B.)	1.3	0.7	0.8	15	
	Lang	25.7	273.4	38.2	74.2	15.2	4,9	•	5.6	E.4	
	Monibasa	27,4	291.5	50.4	97.9	8.0	4,6	1.0	-	•	1
	Tauta	2.0	21.3	42.7	82.9	31.7	55	0.3	1.6	1.4	1
	Tana River	5.2	55.3	57.7	112.0	57.7	0.7	2.0	7.0	0.7	1
		17.7	188.3	51.1	99.2	51.1	4,1	0.7	1.6	0.8	
astern	Ertu	6.3	67.0	50.1	97.3	29.2	4.2	0.2	13	1.1	
	ເຮັດໃບ	2.1	22.3	\$3.7	104.3	25.9	20		2.4	·	1:
	Kana	5.0	53.2	475	92.2	25.	6.8	0.2	1.4	1.7	1
	Masake	12.0	127.7	\$6.7	110.1	13.2	6.5	•	3.1	1.0	
	Marsobit	15.2	172.3	33.7	65.4	31.2	0.3	•	0.4	8.7	
	Meru	75	79.8	36.6	71.1	\$1.4	3.2	05	1.9	3.7	
	Nyambene	75	79.8	36.6	71.1	41.4	3.2	0.5	1.9	3.7	
	Tharaka Nahi	11.6	123.4	45.6	88.5	27.2	2.5		3.5	2.1	
	™ும்ற்	5.0	53.2	475	92.2	25.8	6.8	Ø.2	1.4	1.7	1
	Makueni	4.7	50.0	56.3 47.1	109.3	19.7	2.3	. 0.2	15	• ···· ··· ···	
Vorth-Eastern	Garissa	13.2	81.9	47.1	91.5	1	1.6	33	4.7	6.7	1
NOTIA-Eastern	Mandera	2.3	24.5	46.4	92.0	12.0	6.4	0.6	1.1	45	2
	1	2.3	245	67.3	130.7		43	- 0.0	0.7	2.4	
	1.2 Br	5.7	50.6	527	102.3	151		13	2.1		1
Nyanza	Cusi	1.2	76.6	72.7	141.2	12.7	14	0.5	2.7	60	
·)	Sismu	115	122.3	53.9	104.7	12.8	1	1.2	3.1	1.4	
	Siaya	10.4	110.6	55.1	108.9	10.9	2.4	1.1	1.9	3.0	
	Homa Bay	93	98.9	61.4	119.2			4.0	2.2	1	
	Migori	17.8	189.4	40.5	78.6	1	1	3.4	15	3.1	1
	Nyamire	2.9	30.9	72.0	139.8		13	1.9	8.0	60	
		10.0	106.4	59.4	115.3	133	2.9	19	2.2	1.8	
Gft Valley	Kajiado	11.4	123.3	\$5.7	90.7	23.6	6.3	13	1.2	3.7	
	Kipsigs	95	101.1	45.2	88.7	345	3.6	0.7	1.3		
	Laikipia	9.6	102.1	37.8	73,4	27.8	4.)	05	2.6	20	1
	Nakaru	85	90.4	29,8	\$7.5	33.6	3.2		5.6	2.0	1 1
	Narek	4.6	48.9	75.0	145.6	119	1.3	•	05	0.2	
	Trans Nzoia	12.4	131.9	60.0	116.5	14.9	25		4.0	1.2	
	Uasa Cisbu	6.6	70.2	63.0	122.3	13.9	1.3	1.0	5.0	1.7	
	Bornet	6.1	64.9	30.5	59.2	37.8	1.8	1.1	3.0	6.0	
	Тгальтага	4.6	48.9					· ·	0.5	1	
	Paringo	13.7	145.7	24.5	\$7.8			•	0.5	1	
	Elgeyo Marakwet	15.4	160.5						1	1	
	Nandi	5.1	54.3	1	1	1		1			
	Sambera	13.6	244,7	4	1	1	1		1		•
	l'utkana	9.2	979	4	1				2.1		1
	West Poket		153.0	1				1	<u> </u>	35	
		9.1	· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·	1	T	
Vestera	Sungona	15.5			1				•		1
	Busia	10.7	1		[		r			1	1
	Kakanega	8.8			1					1	1
	Vilio	3.3	2		1				0.9	1	· · · · · · · · · · · · · · · · · · ·
	1	9,4	1			1	1		· · · · ·	1	1
8.	ATIONAL	9,4	100.0	51.5	100.0	21.0	3.6	0.9	2.6	1.6	
	· Urban	10.4	110.6	50.9	\$8.8	20.4	2.4	0.2	3.0	1.7	1
	Rurat	9.2	1	1		1					

Source : Welfare Monitoring Survey II Basic Report 1994, Central Bureau of Statistics

#### Tables

### Table - 3.1.2 Distribution of Households with Access to Safe Water and Main Water Sources by District

		Access to	Safe Water					Main See	aces of Water				
Province	District	Acsess j	National	Pipel	River	Lake Pool	RAM		Unprotected 1		Ungratected	Borchole	Others
Name	Name	Ratio	Average	Water		Dant	Caychment ;	• •	Spring	Well	Well	-	
		%	(Index=100)	<b>7</b> 6	%	2	~	e.,	<u>5</u>	5e	્ય	<u>ƙ</u>	5.
air dhi	Nairohi	96.2	214	95.6	26	·		<u> </u>	<u> </u>	05	· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>
entrat	Kéambu	43.6	97	34.5	32.9	0.5	2.6	0.7	28	5.7	2.5	16.4	I
	Kirinyaga	30.4	68	25 3	55.0	-	-	0.5	1.8	4.6	0.4	12	E
	Murangʻa	349	89	29.7	37.1	•	27	6.0	12.6	16	7.4	15	
	Nyaodacua	56.1	125	39.0	20.8	6.7	91	11	4.8	6.9	3.6	6.9	
	Nyeti	\$9.9	133	52.7	32.1	03	6.4		3.1	0.8	90	12	
		45.5	101	36.2	35.3	0.9	3.8	1.8	5.3	3.7	33	7.0	:
loast	Kilifi	57,4	126	55.2	92	. 11.6		•		2 2	12.1	9.8	•
	Kwałc	22.5	54)	20.5	56	44.1	0.6	. <b>.</b>		3.4	3.7	24.0	•
	Lamu	50.8	135	19.2 :		. 20		3.3	0.6	38 2	24.4		1°
	Mombasa	94,3	210	94.3		· _						11	
	Taita	55.4	123	54 3	31.6	1.		. (1	5.8		0.4	0.7	-
	Tana River	23.0	5t	19.6	63 2	1		08	-	37	1.3	-	
		59.2		56.2	11.6		01	0.3	0.7	2.5	5 2	8.6	
	Cabu		102	40.8	20,4		10	3.1		0.6		8.3	
Eastern	Emba	45.6 55.4	102	50.5	41.0	÷ · ·	0.9	6.9	1.3	3.0		06	
	lsido Maria			5.3	68.5		0.9	12	0.5		32		
	Kitui Mana Ing	16.9 20.4	38		34.1	1	0.3	42	0.9	16		1	
	Masaku	29.4	65	23.2		1	9.3	0.3	1			215	
	Marsabit	38.1	85	22.3	0.5		· ·	i		-	1		
	Maru	62.5	139	59.8	14.9	t.	0.2	2.1	15.6		i i		i
	Nyambene	62.5	139	59.8	14.9	•	02	2.1	1		1		
	Tharaka Nithi	32.2	27	26.6	38 2			1.9	-	•	1		
	Mwingi	16.9	38	5.3	68.5	i.			1	i	1		•
	Makumi	16.7	37	14.9	54.7								
		35.1		29.3	37.4		05						
North-Eastern	Garissa	31.8	71	29.7	10.9	1	-	1.6	1		4	•	:
	Mandera	8.2	18	6.5	28.5		1	-	15		1		
	Wajir	9.4	21	1.0	28		<u> </u>	0.5		8.0			7
		16.9	38	12.7	13 5	33.8	··	; 0.7					
Nyanza	Gusii	31.5	70	3.3	17.1		л	25.4	:			1	
	Kisuma	42_7	95	31.1	27,6	5 2.7	0.5	0.6	1	10.4			
	Siaya	29.7	56	- 1.5	7.1	27.5	3.6	16.8	13.7	1		1	1
	Нопа Вау	18.8	42	<b>S</b> .0	33.5	5 22.0	• 7.9		3.6	28	s  LS.0	73	•
	Migori	5.5	12	2.5	44.0	26	25	0.4	l <sub>i</sub> 24.8	-	21.5	12	1
	Nyamira	39.0	87	45	3.6	<u>s -</u> .	<u>i 10</u>	19	52.5	149	0.9	31	
		28.1	63	92	248	8 10.2	3.0	10.1	1 22	5.6	\$ 93	51	
Rift Valley	Kajiado	53.1	14)	60.1	i u.	1 6.8	. 0.5	21	L 1.3	0.4	\$ 5.7	9.1	
	Kipsigis	32.0	71	15.7	57.4	1 10	. 3.4	5.6	5 3.9	7.3	2 19	i⊟ 31	i
	Laikipia	29.0	1 65	26.4	. 33 9	8 18.6	. 1.6		2.3	0.8	3 i i i i i i i i i i i i i i i i i i i	0.3	
	Nakutu	7).*	1			1 24	21 9	0.	2 <sup>1</sup> 0.8	j 4.0	37 Đố	ं अ	
	Natok	24.9	÷		38.	4 12.7	42	5.	15.1	- 40	s; 3.3	1.0	Į.
	Trans Navia	24.9	1		28.1	1 0.8	i n	0	3. 4.6	9.6	3 20.9	14.7	•
	Casin Gishe	57.8	1		1	i i	•		s 29	34 (	16.2	0.6	ł
	Bapat	28.3	•		f.		-	1	i	1 2 (	3.1	13	
	Transmara	24.9	1	1				i i	1	÷	s 3.3	1 10	i
	Baringo	22.8					:			-	7. 06	1 3 3	1
	Elgeyő Marakwa	21.0			1			0.	1	1	3 13	24	
	Nandi	32.5					12				1		
		1		1					50		10,0		
	Samburu	36.0		1	1	9 0.5		·· - 3.					
	Turkana	45.8										13	
	West Poka	6.0		- F									
L	- [	\$16											
Western	Bungoma	41 9		1			0.4						
Í	Busia	27 1											
	Kakunoga	643					4.8						
1	Vihige	60.1											
L		42.5	9	140	y	1 0.6							
N N	ATIONAL	44.9	100	32.1	24.1	9 5.3	3 2	2 4.	s 10 2	5.	1 6.	6.3	
	<ul> <li>Urban</li> </ul>	93.3	. <u>-</u> 08	L 9/F2	3.	1 0.0	0.3	<b>)</b> (),	s ().)	t <u>2</u>	3 0.1	7 0.1	r i

Source : Welfare Monitoring Survey II Basic Report 1994, Central Beaurea of Statistics

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### Table - 3.1.3 Distribution of Households by Access to Sanitation, Type of Toilet and District

	i .	Access to	Sanitation			Type of Ma	in Toilet		
Province	District	Access	National	Pit	VIP	Bucket	Water	Pour	None
Nane	Name	Ratio	Average				Closet	Flush	
		56	(index=100)	%	%	%	張	%	92 1
airobi	Nairobi	93.2	122	39.6	4.6	-	26.6	27.4	1.8
coural	Kiareba	100.0	)24	87.6	2.0	0.4	6.6	3.4	
	Nirinyaga	97.8	122	93.3	-	-	4.5		2.3
	Murang'a	93.5	123	92.1	4.0	-	0.4	2.1	1.:
	Nyandarua	100.0	124	91.8	0.4	-	.	7.8	-
	Nyeri	99.8	124	92.8	3.0	-	0.1	3.8	0.1
		\$9.3	124	90.8	2.3	0.2	2.9	3.2	0.
oast	Kiliň	73.4	91	68.9	0.3	· ·	2.4	1.7	26.
	Kuale	40.9	51	39.5	0.9	- 1	0.4	-	59.
	Larau	91.8	114	78.6	- 1	.	5.4	7.8	8.
	Mombasa	98.6	123	72.3	2.1	_	20.3	4.0	3.
	Taita	90.4	112	81.5	6.)			2.8	9.
	Tana River	30.9	.38	29.2	1.7		.		69.
		74.6	93	63.6	1.3	<u> </u>	7.0	23	25.
astem	Embu	93.5	115	87.0	3.2		2.8	0.4	6
SIGH	Esiolo	51.6	64	50.9	0.7		. ~		43.
	Kitui	40,4	50	35.6	2.6		<u> </u>	2.1	59.
	Masaku	40.4 82.2	102	68.9	2.0 9.6	1.1	. 0.1	2.1	17.
	Masabit	20.0	25	18.8	9.0 1.2				80.
		 	25 110	15.5 86.8	0.3	- 0.8	0.1	0.4	11.
	Meru Nyambene	88.3	110	86.8	0.3	0.8	0.1	0.4	11.
				96.5	2.2	0.0	~ ~	V.4	1.
	Tharaka Nithi	98.6	123		2.6	-	•	2.1	59.
	Mwingi	40.4	50	35.6		-	-	0.2	39. 10.
	Makueni	89.9	112	87.8 71.5	1.8		0.3		10.
		76.6	95		3.4	0.4		1.1	·
North-Eastern	Garissa	32.6	41	28.7	1.9	-	2.1	-	67. 70.
	Mandera	29.7	37	27.4	2.3		-	-	
	Wəjür	14.1	18	8.3		5.8			85.
		25.4	32	21.3	1.4	2.0	0.7		74.
Nyanza	Ousii	99.0	123	96.8	1.4	-	•	0.9	1.
	Kisumu	78.6	<b>98</b>	67.4	5.2	-	3.6	2.3	21
	Siaya	73.9	92	70.9	2.1	•	0.9		26
	Horna Bay	50.4	63	40.6	1.8		4.4	3.6	49
	Migori	33.6	42	31.8	1.8	•		-	66.
	Nyamira	98.9	123	94.9	0.9	ļ ·	0.8	2.3	)
		72.0	<u>90</u>	65,4	2.3	· · -	1.8	1.6	
Rift Valley	Kajiado	63.8	79	55.5	6.5	i •	1.1	0.2	36
	Kipsigis	73.5	19	72.1	-	•	0.3	1.0	26
	Laikipia	92.6	115	84.7	-	5.5	1.6	0.8	7
	Nakara	94.9	118	80.0	3.9	-	2.4	8.6	5
	Narok	27.2	\$	21.4	2.1	-	·	3.7	72
	Trans Nzvia	97.3	121	\$7.1	•	l	-	10.2	2
	Uasin Gishu	90.5	1	83.8	•	-	6.7	-	\$
	Bornet	73.5	1		1.3	-	-	•	26
	Transmara	27.2	1	21.4	2.1		-	3.7	73
	Baringo	49.1	61	46.5	2.4	-	-	0.2	50
	Elgeyo Marakwet	69.1	\$6	66.0	1.3	•	0.9	0.9	30
	Nandi	74.7	93	73.1	0.4	-	0.8	0.4	25
	Sambura	22.0	27	19.0	2.2	-	0.8	-	78
	Turkana	15.1	19	12.1	1.5	- 1	-	1.5	8.
	West Pokot	27.4	34	26.2	0.3		0.9	-	7
		71.9	\$9	65.3	1.8	0.2	1.4	3.1	28
Western	Bungonia	93.1	116	82.7	3.1	-	5.9	1.5	0
	Busia	85.1	1	83.3	1.2	-	0.6	-	14
	Nakamega	93.4	1	83.9	1.3	1	4.2	4.0	
	Vihise	98.4		94.8	3.7	1	_	-	ŧ.
		93.1			+		3.2	1.9	
			1	1	1				
N.	ATIONAL	\$0.4	1	68.6	2.5		4.5	4.6	39
	- Urban	97.6		50.7	5.0	0.5	20.5	20.8	2
	- Ruzat	75.9	91	73.2	1.9	0.1	0.4	0.4	24

Source : Welfare Monitoring Survey II Basic Report 1994, Central Beaurea of Statistics

### Table - 3.1.4 Distribution of Households by Time Taken for Water Carrying by District

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		Less that	5 Min.	6-30	Min.	31-60	Min.	61-120		More than	
Province	District	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry
Name	Name	Season	Season	Season	Season	Season	Season	Season	Season	Season	Season
Lound		%	5%	%	%	%	<b>%</b>	%	%	%	%
airobi	Nairobi	84.8	83.2	15.2	16.2	-	0.6	-	<u> </u>	· · ·	_ ·
estral	Kiambu	41.1	37.0	46.0	50.1	3.6	5.8	4.8	4.6	1.3	2.6
Caller	Kiriayaga	28.4	26.2	56.5	58.7	14.8	14.8	0.3	0.4	•	•
	Murangia	38.2	27.2	54.8	65.3	6.0	7.3	1.1	0.3	•	-
	Nyapdarua	52.2	40.8	35.9	40.0	8.0	12.9	0.9	6.3	-	-
	Nyen	55.6	42.6	32.4	41.5	11.6	15.5	0.4	0.4		<u> </u>
		43.8	34.8	45.1	52.1	7.5	9.8	2.1	2.4	0,4	0.9
`oast	Kilifi	25.9	21.3	52.6	38.1	16.4	12.3	4.0	9.2	1.1	19.0
	Kwale	16.9	13.6	22.5	38.3	10.1	14.7	0.5	13.0	-	20.5
	Lamu	50.6	45.8	36.2	34.4	7,6	7.6	5.5	9.2	-	•
	Mombasa	69.8	61.6	24.2	21.1	2.4	13,4	3.5	3.9	-	· ·
	Taita	28.1	26.6	56.8	55.1	14.0	17.3	1.1	1.1	•	
	Tana River	21.6	20.8	39.7	31.4	21.8	23,6	7,6	11.8	9.2	12.3
		38.1	33.4	47.1	34.6	10.7	14.3	3.1	7.5	0.9	10.2 7.1
Eastern	Embu	39.9	33.1	46.6	37.5	10.8	14.7	1.8	7.7	08	1.1
	Lsiolo	45.2	41.8	38.6	40.7	11.3	12.6	4.9	4.9 24.7	2.2	16.3
	Kitui	12.4	4.0	\$5.4	22.2	25.0	32.9	5.1	24.7 12.8	0.5	2.1
	Masaku	21.0	15.8	56.6	43.9	17.8	20.4	4.0	12.8	0.5 13.3	45.8
	Marsabit	7,4	2.5	46.8	17.8	21.0	18.1	11.6 5.4	13.7	13.5	12.0
	Meru	22.4	18.8	51.8	43.3	19.2	14.6	5.4 5.4	11.3	1.1	12.0
	Nyambene	22.4	18.8	51.8	43.3	19.2	14.6 21.6	3.7	3.7		
	Tharaka Nithi	11.3	9.7	65.8	65.0	19.2	32.9	5.1	24.7	2.2	16.3
	Mwingi	12.4	4.0	55.4	22.2	25.0 18.9	19.7	11.2	15.3	2.0	14.7
	Makueni	14.3	4.3	53.4	41.3	19.0	20.6	5.7	13.7	16	10.6
		19.8	13.8	53.8	34.3	9.5	14.4	6.2	8.5	7.8	8.9
North-Eastern	Garissa	33.6	34.0	42.9	17.1	28.3	17.8	4.1	6.6	17.1	44.0
	Mandera	8.8	14.5	41.8	28.5	11.7	11.9	7.6	7.8	32.7	47.9
	W'ajir	3.9	17.7	44.2	27.0	16.0	14.5	6.0	7.7	19.2	33.1
		15.8	12.0	65.9	53.2	14.7	21.4	7.7	13.3		- 1
Nyanza	Gusü	11.6 44.3	38.8	45.1	44.8	10.4	13.5	0.2	2.7	-	0.2
	Kisumu	12.6	9.9	63.7	50.3	20.3	21.4	3.1	6.8	0.3	11.6
	Siaya Homa Bay	28.5	13.8	53.0	52.2	16.5	15.3	2.0	8.4	-	10.3
	Migori	23.5	7.8	68.6	56.8	8.2	12.8		12.9	0.5	9.8
	Nyamira	11.5	12.5	63.8	46.8	16.5	30.6	3.3	5.6		4.5
	reyanda	22.8	16.5	59.7	50.9	14.4	18.5	2.8	8.3	0.1	6.0
Rift Valley	Kajîado	34.3	32.2	44.7	38.2	13.9	15.8	4.2	8.1	2.9	5.7
KULY49CY	Kipsigis	31.4	27.0	54.9	48.5	10.0	15.4	3.7	4.2	· ·	4.9
1	Laiopia	24.8	21.5	58.4	53.7	16.7	22.7	0.3	2.2	1 -	
1	Nakuru	54.3	27.4	40.3	44.1	3.7	5.9	2.6	12.5	1 -	9.9
	Narok	22.2	14.5	49.0	35.7	23.6	30.2	5.3	13.2	-	6.4
1	Trans Nzoia	30.0	29.2	62.8	64.3	6.4	6.1	0.7	0.4		
	Uasin Gisbu	32.2	32.1	52.1	43.7	12.7	10.4	2.5	10.5	0.6	3.4
1	Boniet	34.3	20.8	48.0	43.1	12.4	25.9	5.4	8.6	1 .	1.6
	Transmara	22.2	14.5	49.0	35.7	23.6	30.2	5.3	13.2	-	0.4 <u>5.0</u>
, I	Baringo	22.5	7.5	58.4	39.5	16.3	30.3	2.9	17.7		1.2
	Elgeyo Marakwel	15.9	13.7	69.9	65.7	11.9	14.6	1.9	4.9	0.5	1.2
	Nandi	24.0	22.6	70.7	70.6	5.4	6.8				
1	Sambura	4.8	5.1	45.1	37.5	42.1	46.3	8.1 10.1	H.L 12.3	0.2	2.2
	Turkasa	11.6	11.0	60.6	46.6	17.6	27.9	7.8	10.4	3.0	4.8
	West Pokot	6.6	3.3	61.5	60.4	- 18.0	20.5	3.2	8.6	0.4	4.9
L		31.6	22.5	53.1	48.6	11.7	15.8	2.9	4.5		0.5
Western	Bungoma	13.8	11.7	63.6	58.6	19.9	24.7	2.9	12.5	0.4	5.8
I	Basia	<b>S</b> .2	4.7	65.8	50.3	23.4	26.7	0.6	0.6	v•	
1	Kakamega	24.8	23.9	67.4	64.7	7.3	10.8 25.5	8.4	8.5+4.		1
i i	Vikiga	28.1	6.7	52.9		10.6			6.0	0.1	<u>L</u>
L	<u> </u>	19.8	14.0	63.2	1 58.5	13.8	20.1				
N N	ATIONAL	33.9	27.4	50.2	44.8	11.9	15.1	3.1	7.3	0.9	5.
	- Urban	77.0	73.6	20.8	21.9	1.3	3.3	0.6	0.7	0.2	0.
3	- Otoan	22.8	15.5	57.8	50.6	11.6	18.1	3.8	9.0	1.1	6.

Source : Welfare Monitoring Survey II Basic Report 1994, Central Beaurea of Statistics

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The Aftercare Study on the National Water Master Plan

# Table - 3.2.1 (1/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997- 2001

District	Agency	On Going or New Project	Project Name	Division	Priority Ranking	Funding Source		r-Related P Sewerage	· · · · · · · · · · · · · · · · · · ·
កើតក្នុងរួង	MAR	On Guing	Keragoya Municipality WS Rehebilitation	Municipality	1	COK .	•	- scare inge	12/41
		Froje ts	Wang uru Liban W'S Rehabilitation	Marca	2	GOK			
			Kabare Roral W.S. Rehabilitation II	Cichogu		GOKANGO	•	ļ	<b>_</b>
		ļ	Kato Women Group W P (adequate water for domestic use)	55464		NCO Community	ļ	<u>ا</u>	
		1	Kanera Woman Group W.P(water provision)	Gichaga Marca	5	NOO Commonity COK	L.		
		Í	South Women Group W P	Gichaga	6	NGO Community	<b>⊢●</b>		
			(safe water for domestic and livestock farming use)						ļ —
			Karira Water Project	Gichaga	7	NGO Community	<b>↓</b> •		
			(safe water for domestic and livestock facoung use)						
- 1			District Headquarters Office Foot	Ndia	6	GOK	<b> </b>	<u> </u>	• • • • • • • • • • • • • • • • • • • •
			(create a working space for officers)	(Municipality) Municipality		Description	<b>↓</b> ,	<u> </u>	•
		New Project	Kerugoya Kutus Muqi, Water and Sewerage Systems	Gichugu Mwea	2	Denor GOK NGO COK		i	+
- 1		Proposals	Wang bra Major Rural W.P and Sewerage System .	Mwza Ndia		NGO GOK	•	{!	📍
			Ndia Major Rural W/S Kianyaga Rwambit Water and Sewerage System	Max sa Cesta	3	NOO COK			•
1			Mutungara Women Group W.P	Marca	5	NGO/COK	•		
			(Pipe taying for domestic and tivestock use)				╁╌┸┈	····	
			Mosenden Women Group W.P	Mwra	6	NGO GOK Community	•		
		1	(*a'ci supply for demestic and livestock production)		<u> </u>	1.00 congettating		t	t
			Riamiatu W P(construction of a new intake)	Gichagu	7	NOO OOK Computity	•	1	
			Gathungari Women Group W P	Gichaga	8	NGO-GOK Community			i
			Raimu W.P	Gichugu	9		•	<u> </u>	1
			Dun on Rwamutharthi King a and Upper Taba Rolers	District wide	10	NOO OOK	1	T	1
			Sagaan Urban W.S.Rehabilitation and Severage System	NGa	11	COK	1	1	•
			Institutional and Self Help W.P	Districtwide	12	Community	٠		<u> </u>
			Purchase of Vehicles	District wide	13	cok	L		
			Motor Vehicle Electrical and Carpentry Workshop		14	<u>CCK</u>		L	
			Office Accommodation, Divisional Headquarters	District wide	15		1	1	1
			(offer construction)				.	1	4
		L	Staff House Construction	District wide	16	GOK	<u> </u>	<u> </u>	<u> </u>
	MOLA	On Going	Kerugoya Bus Park	Kerugoya Towa	)	Counci	<u> </u>	<b>_</b>	1
	(Xerugoja)	Projects	Street Lighting	Kutus Town	2	GOK	- <b>I</b>	<b> </b>	<b>-</b>
		New Project	Sewerage	Kerugoya Kutus	<u> </u>	Dealer OOK	<u> </u>	<b>↓</b> ●	+
		Proposals	ws	Kutus Town	2	Dooos/GOK	•	<u> </u>	ł
		\$	Road (termacking and maintenance)	Kerngoya Katus	3	Donor/GOK	·	Į	+
		1	Enhauster Vehicle for the Service of the Septie Tank	Kutus Town	<u> </u>	Donor, GOK	<u>+</u>	·	÷
			Acquite Refuse Vehicles	Kutus Town	5	Dener/COX Dener/COX	+	ļ	<u> </u>
		1	Open Air Market (concrete slab and market stalls)	Kerogoya Katus Kutus Towa	6	Donor COX	·		+
			Acquire Fire Brigade Vehicles Completion of the Statied Staughterbouse	Katus Town	- 6	Council		+	+
			Steet Lighting	Kringoya Kutus	9	Council		+	+
			Construction of Town Hall and Offices	Kerugoya Kutus	10	Dener/OOK		+	†—
	MOLA	On Coing	Kobirigwi Bridge Construction	Neis	1	Council	+	+	┼──
	(Krin) 282)	Projects	Noung Bridge	Gichogo	2	Council		+	+
	(100) 444	10,000	Construction of Social Halt	Gichega	3	Council	+	+	+
			Construction of Children's Home and Matron's House	Gichaga	4	Council		+	+
			Construction of Stadium	Mirca	5	Council	1		1
			Murraming of access road	district wide	6	Council		1	1
		New Project	Construction of Rantal Houses	Gichugu	1 1	Council	-	1	1
		Proposals	Construction of Rental Houses	Baricho Nia	2	Coence		1	1
			Construction of Kanyaga Staughter House	Getaga	3	Council			1
			Construction of Baricho Staughter House	Ndia		Council			
			Construction of Barter Market	Mwca	5	Council			
		L	Planning of Urban Center	district wide	6	Monistry of L. G.			<u> </u>
ດດໍຍະບອ	MAR	Oc-Guing	OI Kalou W P	OI Kalos	1	COX	•	- <b> </b>	4
		170,000	Kipipin W.P	Kopipiri	2	OOK Self-help	•	4	ł
			Nyakarianga W.P. Fump House and Fumping Unit	Of Jore Oroke	3			ļ	1
		1	Leshao W.P. Intake and Pumping Unit	Ndapagwa	4	COK Self-he.p		<u> </u>	- <b>I</b>
		í	Nphini W.P. Intake	Kinangop	5	<u>cok</u>	•	1	1
		1	Muhonia W.P. Intale	Kinangop	6	GOK	•	+	+
			Multangi W.P. Intake	Козлдор		Red Cross			1
		1	Rora W P. Tant	Of Kates	8	GOK		+	+
		1	Rehabilitation Programme	district-wide	8	GOK .		+	·
		1	Huhiro W.P. Indie	Ndaragwa Of Kalon	10	Red Cross	+	+	
		1	Kagaa W P Kirima W P	Of Kalon Ndaragwa	11	GOK Self help		+	·+
		New Project	Krima W.F Construction of District Headquarters Offices	CHTK2100	12	GOK/Self-belp GOK	•	+	+
		Proposals	Construction of English Phanguariers Cances	Of Kalos	2	GOK	<b>•</b>	$+ \cdot -$	+ -
		110,000,000	Cithai W P	Kinangop	3	GOK/Self-help		+	
		1	Mubao W.P	Kigipiri	4	CONSETTED COX Community		+	1
		1	Kirkes WP	Ndaragwa	3	OOK Commonity	-	1	1-
		ł	Kiesi W.P	OI Kalos	6	OOK Community		+	<u> </u>
		1	Gadai W.P	Ot joro Orok	1	GOK Community	•	·†	<u>+</u>
	ł	1	Wimbets W.P	Ndarugura	8	COK Community		1	1
	MOLA	On-Geing	Read Improvement Programme	district-wide	1	NCC	1	1	1
	(Nyandarua)	Projects	Mark el Drainage System	district wide	2	NOC	1	•	
	1		Garb age Collection	futrice-wide	3	NCC		1	1.
		1	Construction of Public Toilet Facilides	district-wide	4	NCC	T	Т	1
	l	1	Construction of Pits for Sewage	district-wide	5	NOC		•	
	1	L	Assistance to Nursery Schools	district-wide	5	NOC		1	
	1	New Project	Construction of Cosnel Offices	Offication	1	GOK Loan	1	1	1
		Proposals	Establishment of Stock Yards	cistrici-wide	2	GOK Loan	1	7	-1
	ł		Protection of Public Dams	Dam district wide	3	NOC		1	1
		<u> </u>	Construction of Market Stall	district wide	1	GOK Loan	1	1	+
	MOLA	Ou Geing	Road Improvement Programme	OI Kaiou	1	orc	1	1	1
	(Ol Katou)	Projects	Bus Park	Of Kalou	2	orc	1		1
	1		Construction of the Open Air Market	Ot Katou	;	OTC	1	+	+
	ł	1	Sanitasion Services Project	Of Kalou		010	+		
	F	1	Huruma Estate Development	1	5	orc			t –
				Of Kateu	1	OK Low	-1	1.	+
	1	Ne Profess	läewerger System						
		New Project Proposals	Sewerage System Construction of Straghter House	Of Kateu	1 2	GOK Loan			

The Aftercare Study on the National Water Master Plan 

### Table - 3.2.1 (2/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997 - 2001

Xstrict -	Agency	On Coing or New Project	Project Name	Division	Priority Ranking	Funding Source	Water	r Related P Sewerage	···· ···· ·····
'y eri			Tetu Thegenge W.S. Rehabilitation and augmentation	Tenu		COKSDO		<u> </u>	
	l	Projects	Warnzo-Lasoi W.P	Kieni East		GOK Self-help		í	
			Karalina Liban W.S	Karatina		GOK			·
			Mukurwerini W.S	Makuruwerini		GOX Self help		·	†
			Mueiga Joini W.P	Kieni Wast Kieni West		GOK Self bolp			t
			Enderasha W.S	Mathira		OOK Self beip			<u>i</u> — —
			Chehe W.P. Kamburaini W.P	Keni East	8	IFAD.COK			Í - · · · · · ·
	1		Ndathi Meltini W.P	Keni East	9	Catolic Masies will help	•		
1		New Project	Catarat wa Mugunda W.P	Kieni West	1	COKSDD1FAD	•	[	T
		Proposals	Mwiyogo Location W.P	Kieni West	2	OOK/Self help	•		i
		repusas	Mweiga Location Simbara W.P	Kiesi West	3	GOK/Seif-help/SDD	•		
			Thungari W.P	Kichi East	4	OOK (FAD Self help	•	1	<u>i                                    </u>
			Karibhi W P	Mathira	5	GOK Self-help	•		<u> </u>
	NWCFC	On-Going	Karima Self Help W P	Othaya		GOK-Self-belp	•		
		Projects	Mahiga Self Help W P	Othaya	2	GOK/Self help	•		·
	í – – – – – – – – – – – – – – – – – – –		Chings Self Help W P	Othaya		COKSelf help	<b>!</b>	<u> </u>	
			Kigwandi Sett-Hip W P	Tetu	4	GOK Self-help	<u>•</u>	<del> </del>	+
		New Project	Mathira W'S-F/S, Rehabilitation	Mathira	1	COK	- <u>-</u>	+	
		Proposals	Othaya W.S	Othaya	2	<u></u>	•		
	MOLA	New Project	Improvement of Roads and Strom Water Drainage	Othaya		GOK/Dener			+
	(Qdraya)	Proposals	Bus Matatu Park	Oihava		GOK/Denor			· <del>  · · · ·</del>
			Construction of Complete Market System	Othava	- 3 -	COK/Denor		1	
			Cleaning and Leveling of Open Air Market	Othaya		MG		†	1
	MOLA	New Project	Rehabilitation of W/S	<u>Nieri</u>		MLG	1	T	1
	(Nyeri Munic.)	roposais	Upgrading of Town Roads	N	3	GOK	1	1	1
	1		Entension of Severs	Nyui	1	COK		•	1
	1		Green Town Environmental Action Plan	Nyeri	- 5	Donor			1
	ł	l	Street Lighting	Ny cri	6	M.G			
	MOLA	New Project	Grading of Tea and Coffee Access Raads		)	Cess Funds	.1	1	
	(Neri County)		Mweiga Water Scheme	Kieni West	2	GOK/Dosor	•		_ <b> </b>
		L.'	Naromoru W/S	Krini East	3	GOK/Donor	•		<b>_</b>
	MOLA	On-Going	Credit Guarantee Scheme	Karatina	1	SEFCO			<u> </u>
	(Karaina)	Projects	W3D-Provision of Loans to Women Group	Karatina		FESTFP KWFT KREP		+	
	· ·	New Project	Sewerage Rehabilitation (Re-souting of fines)	Karatina		COKLOLA	+		
		Piocosals	Sewerage Treatment Works Phase H(Rehabilitation)		2	External	<u> </u>	· + - •	+
			Small Towns Water Use Tests/Sanitation	Karatina	3	GOKMOWD	-	-	<u>+</u> —
		1	Sewerage Phase IV (construction of sewers)	Karatina		MOLGLA	+		+
			Purchasing Fire Fighting Truck	Karatina		External MLO			
			Construction of Wholesale Market	Karalina	<u>6</u> 7	External MLGASAID			+
		1	Tamacking of Roads	Karətina Karətina	8	Internal LASC			1
			Street Lighting Gakaire Hospital Bridge	Karatina	9	Internal LASC			-i
	ł		Construction of Modern Social Hall	Karatina	10	LASC	-	-	1
	MOLA	New Preject	Dam Construction	Kinni East West	1	COK/Donor			
	(Ewase Nigro	Picoosais	Hordcultural and Irrigation Development Programmes		2	COK/Doner			
	North Dev.	1.000							1
	Asthority)								1
		<u> </u>					•		
Thika	MAR	On-Going	Juja Farm Self-Help Project(Pipe laying)	Ruira		OOK Harambre Depor GOK	1.		
		Projecto	Roiru W.S (rehabilitation of tanks and fines)	Rairu	2	GOK -		-+	
			Juja W. P(Construction of steel tanks)	Reiru		COK/Harambee	•	+	-1
			Ragia Self-fit p W P(Complete laving of the gamile   genety)	Cabusta	4	GOK	Ť		1
			Ndarugu W/P(Complete the twin mainline)	Gatundu Gatundu	6	GOK			
		1	Kadmenu W7 (Complete the twin mainline)	Kakazi	: 7	GOK/Dosor			
		1	luhanga W.P(rehabilitation of intake)	Kıtazî	\$	Donor Phrambee			
			Ginamba Community W P(gravity fine)	Thika	9	GOK Haramber Donor			-1
		See Brolen	Knyathena w/p	Raira	1	GON Down Course of	•		Π.
	1	New Project Proposals	Kaihoa w'a	Roya	2	GON Dones Comments	•		
	Agriculture,	11600530	The most of P	1	-t	1		1	
	Agriculture, Livestori Dev.	1		1			1	ł	1
	Markeniog								
Kwale	MAR	On Going	Longa Longa W. S(Borehole, pusp)	Manth w eni	3	<u>60K</u>		<u> </u>	
	1	Projects	Şbimba Hills W/S	Kuba	2	<u>сок</u>			
	ł	1	Mangani W.S(construction of tank)	Kubo	3	<u>60K</u>			
	1	1	Vanga W/S(rehabilitation of pumping unit)	Kubo		GOK		+-	-+
		1	Kitoneni WS pumping units	Marab weat		GOK			- <u> </u>
	1	1	Masambweni WS(construction of tank)	Mambweni	6	<u>cok</u>	+		
		1	Kwale W/S(construction of ank)	Tsimba	7	<u>оок</u>		-+	
	l		Kinango W.S. pumping units)	Kinango	8	GOK		-+	+
	í.	New Project		Manibweni Kinatgo and Sambara		GOK	•		
	1	Proposals	Samburu/Vigurugani W/P(pipeline)	Samburu		GOK			- <u>-</u> -
		1	Matumbi W.P(pipeline) Chonyî Dam(reservoir (embarkmenî)	Kinango	1	GOK		1	_1
	- I	1	Chonys Dam(reservoir embartment) Myraluphesa Rock Cafehment	Samburu	5	ÇOK	1		
	1	1	Maaluphesa Rock Calchment Maakijembe Dam(reservois/embarkment)	Kinango	6	GOK			
	1	1	Ndavaya Dam(reservoir embarkment)	Kinango	1	COK Community		1.	
	1	1	Nyando Dam(reservoir and fonding)	Kinango	8	COK			
	1	1	Sambura W P(pipeline)	Samburu	9	COK			
	1	i	Samburu w rippennes Samburu South Group Ranch w p(pipeline)	Sambory	10	COK	•		
			Wasini Diabia W.P	15amb#en]	1	COK Deser			
		1	Kithan Rock (Budens) (wall, pipes and fending)	Samburu	12	GOK	•		
	1		Majanboni W S(pumping unit and distribution lines)	Kubo	13	COX	•		
	1	+	Letore W.S (pumping unit and storage tank)	Κυδο	14	COK/Denor			
	1		Musiophamba W S (pumping unit and storage tank)	Kubo	15	COK	•		
		1	Kimugondo Dam(embarkment)	Mambweni	15	GOK Danor			
	Coast Dev.	On Going	Maji Moto Dispensary(Health Project)		1	GOK Community			
			Ukunda Experimental Farm (demonstration farm)	Mambweni	2	GOK			
		PICKCO	Contraction and a state of the second second second						
	Authority	Projects	Mwananyamala Farm(Establish Nocleus estate)	Mambucai	3	GOK			
		Projects			3	COK COK COK Computity Don			

The Aftercare Study on the National Water Master Plan

## Table - 3.2.1 (3/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997 - 2001

	Agency	On-Going or New Project	Project Name	Division	Priority Rasking	Fanding Source		- Related P Severage	
Kwale	Ceast Dev.		Water Resource Development(dams and wells)	ASAL	1	GOKCDA			
(coat'e)	Authority	Proposed	Parbopatory Rural Appraisal(Agriculture)	district wide	2	COK CDA/Community COK Community			
	(cont'd)		Small-Scale Enterprises(income generation)	Maluga		COK			
			Sugar Industry (Formation of a company)	Mambweni	5	Contraunity			
ໂລການ	MAR	On Going	Lamu W P Augmentation Project (tchab ditation)	.4ຫປ	1	QOK/IFAD			
		Projects	Machoni W/S(rehabilitation)	Kunga	2	ÇOK	•		
			Community Weils Construction / Rehabilitation	Faza Kiwaga	3	OOKDonors	٠		
			Community Training	Faza Krunga	4	GOR 1 FAD	•		
-		New Project	Faza Desalination Plant(FS)	Faza	)	QOK Doner	•		
		Proposals	Liveslock W Prog (well)	Distict wide		GOK/Donor	•		L
Ļ			Wetland Toventory	Distict wide	3	COK.	1	L	í
	MOLA	On Going	Lamu Town Mart et Extension	<u>Annu</u>		Council	L	l	
		Projects	Rehabilitation of Donkey Holding Stand	Amu		Coonal		<b>↓</b>	ļ
			Rehabilitation of Stadium Construction of Sewerage System	Али	3	Council Urban Development Pro.			[
		New Project Proposals	Rental Housing Construction	Amu Amu Mokowe	2	National Housing Corp.			
1		L	Open Air Market	Wits'Amv	· ·	County Council	t		<u>├</u> ─
lombasa	MAR	On Going	Second Maima Spring Pipeline		1	World Bank		<u> </u>	
		Projects	access where should be use		-		1 -		i i
		New Project	Rehabilitation of Wells	Litoni	1	COX/Donor	•	[	ţ
		100052.5	Rehabilitation of Wells	Changamwe	7	GOK Donor	i i		<del> </del> -
		1	Wells Rehabilitation	Kisauni	3	GOK/Donor	ė	1	t
		1	Borcholes Project	Districtwide	4	GOK/Donor	•	·	
I		1	Denyenye Line Rohabilitation Project	1	5	GOK/Donor	•	1	1
		!	Bagamoyo Ma unguja W.P	Kasani	6	COK/Donor	•		<u> </u>
1		l	Timbwani Line Rehabilitation	Lixoni	7	GOK/Donor	•	Ι	L
1		1	Barsheba Mishomoroni W P	Kisauni	8	COX.	•		
I		1	Hode Hode Pen-Reitz W.P	Changamie	8	300	٠		
į		1	Kiembeni Utange W P	Kesauni	10	COK	•	<u> </u>	1
		<b>_</b>	Mopanga Primary School W P	Kisauni	μ.	GOK	•	J	1
na Rh ei	MWR	Oo-Going	Oda W P(tank, seŭculation system)	Garsen	1	QO K	•	l	<u> </u>
- 1		Projects	Coast ASAL Development Programme(regular wells)	district wide	2	IFAD-OOK			
		New Projects	Garsen W.S (rehabilitation)	Garsen	1	00K	•	-	
		Proposals	Repini W/S (rehabilitation)	Garsen	2	ÇOK.	•		
			Hirimani Earth Pan(Site investigation planning)		3	COK	<b></b>		<u> </u>
		4	Wayn Earth Pan(Site investigation planning)	Catole	4	COX			
			Chandende Earth Pan (Site investigation planning)	Madogo	5	GOK	•	ļ	_
ნოხა	<b>MWR</b>	On-Going	Ky eni W.S (rehabilitation daugmentation of pipeline)	Kyeni	1-1	COK			1.
		Projecto	Emba Rural(improvement of the intake)	<u> </u>		GOK	<b>!</b>	· · · · · · · · · · · · · · · · · · ·	ŧ
1			Makengi W P	Manyama	3	<u> </u>	<u> </u>		+
		New Project	Kigas W'P(New intake)	Eury enjes		GOK	- <u>•</u>		1
ŀ		Process's	Githimu Cather W P Lew Cost Housing Scheme (Construction)	Manyatta Centrat	2	NOOLGSH	•	<u> </u>	+
	MOLA	On Coing	Youth Polylechnig(Consuction)	Central	2	NOOLGSH			╋
	(Eoba Muni.	Projects	Children's Chaio(Hzalth)	Cectral	3	And a California Section New York	+		╉──
i i	Cooncil)		Fire station and Firemeni granters	Central	1	Local Service Charge			╉┈
1			Mai Sewer Line Pamping	Central	5	NOOLGSH	· • · · · · ·		+
		New Project	Sew crage (construction)	Central	1	Donor, World Bank	+	•	+
1		Proposals	Uban Transport Improvement Rehabilitation		2	World Bank		1	-
			Street Lighbog	Central	3				+
						LOCAL SCIVICE UNATER		1	
Ì	MOLA	New Project	Manyatta Staughter-house construction	Manyatta	1	Local Service Charge GOK			+
		New Project Proposals	Manyatta Staughter-house construction	Manyarta Runyenjes					+
	MOLA (Exts Couty Council)				1	GOK			
	(Easts Consty		Manyatta Statehter-house construction Kathande Factory Road (murraming)	Runyenjes	1	GOK GOK			
	(Easts Consty		Manyatta Staughter-house construction Kathande Factory Road (murraming) Josephat Nieka's Private Coffee Road(murraming)	Runyenjes Nembure	1 2 3	СОК СОК СОК СОК			
	(Easts Consty		Manyatta Slaghter-house construction Kathande Factory Road (marraning) Josephat Njeta's Private Coffee Road(morraning) Kithesi factory scad(murraning) Li cabed: Market Des elopment(construction) Kangangi Secondary School Water Tank(construction)	Runyenjes Nembure Nembure Kyeni Kyeni	1 2 3 4 5 6	СОК СОК СОК СОК	•		
	(Easts Consty		Manyata Shaqhtar-house construction Katharde Factory Road (marraning) Josephat Nicka's Private Coffee Road(marraning) Kathaf factory read(marraning) Likestodt Market Development(construction)	Runyenjes Nembure Nembure Kyoni	1 2 3 4 5	СОК СОК СОК СОК	•		
	(Easts Consty		Manyatta Shaqahtar-house construction Katharde Factory Road (murraning) Josephat Nieka's Printe Coffee Road(murraning) Kahagi factory read(murraning) Lin Estord: Market Des elopment(construction) Kanagagi Secondary School Water Tanktemetry elses Kigaati Kalawi Road (murraning) Kigaati Kalawi Road (murraning) Raheu Bridge Construction	Runyenjes Nembure Nembure Kyeni Kyeni Manyada Nembure	1 2 3 4 5 6 7 8	Сок Сок Сок Сок Сок Сок Сок Сок	•		
	(Easts Consty		Manyata Shaghtar-house construction Katharde Factory Road (marraning) Josephat Nicka's Private Coffee Road(marraning) Kathedi factory read(marraning) Lik estudi Market Des clopment(construction) Kanangi Secondary School Water Tanktewateration) Kigaan Kaliwai Road (marraning) Kathu Bidge Construction Kathushidge Construction	Runyenjes Nembure Nembure Kyeni Manyarta Nembure Manyarta	1 2 3 4 5 6 7 8 9	Сок Сок Сок Сок Сок Сок Сок Сок Сок	•		
	(Rathe Const) (Council)	Proposals	Manyata Shaqhter-house construction Kathande Factory Road (marraning) Doephat (house Shat Keel Construction) Kathani factory read(marraning) Lineatod: Market Development(construction) Kanyangi Secondary School Water Tanktemen size) Kigaani Kathani Road (marraning) Rathani Bidge Construction Kathanin Kathani Bidge Construction Kathanin Kathani Bidge Construction Kathanin Kathani Bidge Construction	Runyenjes Nembare Nembare Kyeni Manyata Nembare Manyata Manyata	1 2 3 4 5 6 7 8 9 10	СОК			
-sozeit	(Easts Consty	Proposals On-Coing	Manyatta Shaqahtar-house construction Kathande Factory, Road (murraning) Josephet Nieka's Private Coffee Road (murraning) Kishadi Ledoy erad (murraning) Linestoch Murket Des dopment construction) Kangangi Secondary School Water Tankrenern eines Kysani Kulmi Road (murraning) Rateth Bridge Construction Kathati Karumanth Bridge Construction Kungue Pactory Road (murraning) Karare W.S (tehabilitidos)	Runyenjes Nembure Nembure Kyeni Manyata Nembure Manyata Manyata Central	1 2 3 4 5 6 7 8 9 10 1	GOK			
<b>Sout</b> i	(Rathe Const) (Council)	Proposals	Manyatia Shaqahtar-house construction Kathande Factory Road (marraning) Josephat Nieka's Printae Coffee Road(marraning) Kathaf factory read(marraning) Lin Estote Market Des elopment(construction) (Gapari Kathari Road (marraning) Rigeari Kathari Road (marraning) Rahetu Bridge Construction Kathenlifi Katumanthi Bridge Construction (Kathenlifi Katumanthi Bridge Construction Kathenlifi (construction Kataré WS (construction) Bedausa W/S (new source)	Ranjenjes Nembure Nembure Kyeni Manyada Nembure Manyada Manyada Central Central	1 2 3 4 5 6 7 8 9 10 1 1 2	Сок Сок Сок Сок Сок Сок Сок Сок Сок Сок	•		
Yarsahit	(Rathe Const) (Council)	Proposals On-Coing	Manyata Shaqhter-house construction Kathade Factory Road (marraning) Doepht (Fycta 3 Frist Colfee Road(murraning) Kithegi factory stad(murraning) Linestock Market Development(construction) (Kathagi Secondary School Water Tanktownening) (Kgaani Kainuti Road (marraning) Rathal Bridge Construction Kathani-Karwanabi Bridge Construction (Kamau Factory Road (morraning) (Karate WS (tehebilitation) Budasa WS (tehebilitation) Budasa WS (tehebilitation)	Ranjenjes Nembure Nembure Kjeni Manjata Nembure Manjata Central Central	1 2 3 4 5 6 7 7 8 9 10 10 1 2 3	GOK	•		
-Sirszbit	(Rathe Const) (Council)	Proposals On-Coing	Manyata Shaqhter-house construction Kathande Factory, Road (marraning) Josephet Nielas Private Coffee Road (marraning) Kishadi Tachoy read (marraning) Likeshot, Market Des elopment (ronstruction) Kangangi Secondary School Water Tanktenary sing) Kgazari Kathati Road (marraning) Ratetu Bridge Construction Kathati Bridge Construction Kangari Pattory Road (marraning) Karare W.S (rehabilitation) Bigi Water Pan (deabling) Elaisanio W.S (rehabilitation)	Runjenjes Nombure Nombure Kjoni Manjata Nombure Manjata Contral Contral Contral Laisamis	1 2 3 4 5 6 7 8 9 10 10 1 2 3 4	GOK	•		
-\$rszħi	(Rathe Const) (Council)	Proposals On-Coing	Manyatia Shaqhtar-house construction Kathande Factory Road (murraning) Josephat Nieta S Private Coffee Road (murraning) Kathadi (actory read/guarraning) Linestock Market Des clopment/construction) (Kanangai Secondary School Water Tankrewarnation) (Kgania Katimi Road (murraning) Rathat Bridge Construction Katare Water Road (murraning) (Karare WS (rehabilitation) (Balassi W.S (new scorec) Bligi Water Pan (des)Ting) Listanio WS (rehabilitation) (Strifte R: S (construction of pourg house and tant)	Ranjenjes Nombure Nombure Kyoni Manyata Nombure Manyata Contral Contral Contral Laisamis Laisamis	1 2 3 4 5 6 7 7 8 9 10 1 1 2 3 4 5	СОК           СОХ           СОХ           СОК           СОК           СОК	• • • • •		
sanakir	(Rathe Const) (Council)	Proposals On-Coing	Manyata Shaqhter-house construction Kathade Factory Road (marraning) Doephit (Fylets First e Celler Road (murraning) Kithedi factory read(murraning) Linestoch Market Development(construction) Kangangi Serondary School Water Tankteoutreates) Kgrant Kalmut Road (murraning) Kathenit Karwanathi Bridge Construction Kinneu Factory Road (murraning) Karare WS (rehabilitation) Dedasa W.S (rehabilitation) Edasan's WS (rehabilitation) Bala Water Run (dealting) Laisan's WS (rehabilitation) Marille WS (construction of pump hoase and tant) Logologe W S (rehabilitation)	Ranjenjes Nembure Nembure Kjeni Manjada Nemburs Manjada Central Central Central Central Laisamis Laisamis	1 2 3 4 5 6 7 8 9 9 10 1 1 2 3 3 4 4 5 6	GOK	• • • •		
Manakir	(Rathe Const) (Council)	Proposals On-Coing	Manyata Shaqhter-house construction Kathande Fractory Road (marraning) Dosephat Nipeta's Prix ate Coffee Road (marraning) Likestifectory read(marraning) Likestoed Market Development(ronstruction) Kansangi Scrondary School Walter Tankterner ning) Kathangi Scrondary School Walter Tankterner ning) Kathangi School Walter Tankterner ning) Reathan Bridge Construction Kathanici Karumanthi Bridge Construction Kathanici Karumanthi Bridge Construction Kathanici Karumanthi Bridge Construction Kathanici Karumanthi Bridge Construction Karare W.S (rehabilitation) Bedasa W.S (rehabilitation) Bedasa W.S (rehabilitation) Laisanio W.S (rehabilitation) Marille W.S (rehabilitation) Logologa W.S (rehabilitation) Logologa W.S (rehabilitation) Logologa W.S (rehabilitation)	Runjenjes Nombure Nombure Kjoni Manyata Nombure Manyata Contral Contral Contral Laisamis Laisamis Laisamis	1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 7 8 9 10 10 1 2 3 4 5 6 7 7 8 9 10 10 10 10 10 10 10 10 10 10	GOK	• • • • •		
-≎rszkir	(Rathe Const) (Council)	Proposals On-Coing	Manyatta Shaqhtar-house construction Kathande Factory, Road (murraning) Josephet Nieka's Private Coffee Road (murraning) Kishadi factory eradi(murraning) Linestock Market Development(construction) Kianzangi Secondary School Water Tankrenarn etan) Kgazah Kulmit Road (murraning) Ratetu Bridge Construction Kunze Perboy Road (murraning) Karzet WS (rehabilitation) Brigit Water Pan (deabling) Edisani WS (rehabilitation) Marille WS (rehabilitation) Marille WS (rehabilitation) Loipangalani WS (construction rehabilitation) Loipangalani WS (construction rehabilitation)	Ranjenjes Nembure Nembure Kyeni Manyatta Nembure Manyatta Central Central Central Laisamis Laisamis Laisamis Laisamis	1 2 3 4 5 6 7 7 9 9 10 1 1 2 3 3 4 5 6 7 7 8	GOK			
-\$rsakii	(Rathe Const) (Council)	Proposals On-Going Projects	Manyatia Shaqahtar-house construction           Kathade Factory Road (marraning)           Doephat (Next) First ac Celler Road (murraning)           Kithegi factory read(murraning)           Kithegi factory read(murraning)           Kithegi factory read(murraning)           Kathegi factory read(murraning)           Kathegi factory read(murraning)           Kathegi factory read(murraning)           Kathegi factory read(murraning)           Rather Karonadury School Water Tarhteometration)           Kigaari Kalmui Road (murraning)           Rather Bridge Construction           Kinneni Karomanth Bridge Construction           Kinneni Karomanth Bridge Construction           Kinnen W.S (rehabilitation)           Dedasa W.S (rehabilitation)           Logologa W.S (rehabilitation)	Ranjenjes Nembure Nembure Kyeni Manyata Nembure Manyata Manyata Central Central Central Central Central Laisamis Laisamis Laiyangalani Najitona	1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 7 8 9 10 10 1 2 3 4 5 6 7 7 8 9 10 10 10 10 10 10 10 10 10 10	GOK           GOX	• • • • •		
\$pæir	(Rathe Const) (Council)	Proposals On Coing Project New Project	Manyata Shaqhtar-house construction Kathade Factory Road (marraning) Doephat (hjota) Finist Colfee Road (murraning) Kithesi factory sead (marraning) Kathadi factory sead (marraning) Kathadi factory sead (marraning) Kigaan Kathadi Road (marraning) Kigaan Kathadi Road (marraning) Kathadi Kathadi Kathadi Kathadi Kathadi Kathadi Kathadi Dadasa W.S (relaki fination) Marile W.S (relaki fination) Logiang W.S (relaki fination)	Runjenjes Nombure Nombure Kyoni Manyada Nombure Manyada Nombure Manyada Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis	1 2 3 4 5 5 6 7 7 8 9 10 12 2 3 4 5 5 6 7 7 8 9 10	GOK           GOK           GOK           GOK           GOK           GOK           COK           GOK           COK           COK           GOK           COK           COK           GOK           COK			
\$rsabit	(Rathe Const) (Council)	Proposals On-Going Projects	Manyatia Shaqahtar-house construction           Kathade Factory Road (marraning)           Doephat (Next) First ac Celler Road (murraning)           Kithegi factory read(murraning)           Kithegi factory read(murraning)           Kithegi factory read(murraning)           Kathegi factory read(murraning)           Kathegi factory read(murraning)           Kathegi factory read(murraning)           Kathegi factory read(murraning)           Rather Karonadury School Water Tarhteometration)           Kigaari Kalmui Road (murraning)           Rather Bridge Construction           Kinneni Karomanth Bridge Construction           Kinneni Karomanth Bridge Construction           Kinnen W.S (rehabilitation)           Dedasa W.S (rehabilitation)           Logologa W.S (rehabilitation)	Ranjenjes Nembure Nembure Kyeni Manyata Nembure Manyata Manyata Central Central Central Central Central Laisamis Laisamis Laiyangalani Najitona	1 2 3 4 5 6 7 7 7 8 8 9 9 10 11 2 3 3 4 4 5 5 6 6 2 8 8 9	GOK           GOX			
Sirsabit	(Rathe Const) (Council)	Proposals On Coing Project New Project	Manyatia Shaqhtar-house construction Kathande Factory, Road (marraning) Josephet Niela's Private Coffee Road (marraning) Kihadi Tachoy read (marraning) Lin ashed, Market Development (ronstruction) Kiangangi Secondary School Water Tanktenary size) Kgazari Kainuf, Road (marraning) Ratetu Bridge Construction Kathani Karumanah Bridge Construction Kingue Jachory Road (marraning) Katare W.S (rehabilitation) Kasare W.S (rehabilitation) Bigi Water Pan (deabilitation) Marille W.S (cetabilitation) Marille W.S (cetabilitation) Marille W.S (cetabilitation) Logologe W.S (rehabilitation) Logologe W.S (rehabilitation) Kasare W.S (cetabilitation) Kasare W.S (cetabilitatio	Ranjenjes Nembure Nembure Kyeni Manyatta Nembure Manyatta Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Central	1 2 3 4 5 5 5 5 9 9 1 1 2 3 3 3 4 4 5 5 6 7 7 1 2 2 3 3 3 3 3 3 3 3 5 9 9 9 9 9 9 9 9 9 9 9	GOK			
фожії	(Rathe Const) (Council)	Proposals On Coing Project New Project	Manyata Shaqhter-house construction Kathade Factory Road (marraning) Doephit (Neta Y First e Celler Road (murraning) Kithesi factory road (murraning) Likestoch Market Development(construction) Kangengi Scenadary School Water Tanktewarenten) Kgaari Kalmui Road (marraning) Rathuti Road (marraning) Rathuti Bridge Construction Kinngu Factory Road (marraning) Kartenii Karemanth Bridge Construction Kinngu Factory Road (marraning) Rathut Bridge Construction Kinngu Factory Road (marraning) Rathut Bridge Construction Defasa W.S. (rehabilitation) Defasa W.S. (rehabilitation) Laisania W.S. (rehabilitation) Logiaga W.S. (rehabilitation) Logiaga W.S. (rehabilitation) Logiaga W.S. (rehabilitation) Katacha W.S. (rehabilitation)	Ranjenjes Nembure Nembure Kyeni Manyata Nembure Manyata Central Central Central Laisamis	1 2 3 4 5 6 7 7 8 9 9 10 1 2 3 3 4 5 6 7 8 8 6 7 2 8 8 9 9 1 1 2 3 3 3	GOK			
(arsahi) Nora	(Rathe Const) (Council)	Proposals On Coing Project New Project	Manyata Shaqhtarhouse construction Kathande Factory Road (marraning) Doephat (hjota) Finist Colfee Road (marraning) Kithesi factory scad(marraning) Kathangi Secondary School Water Tanktowarnation) Kathangi Secondary School Water Tanktowarnation Kigaan Kathani Road (marraning) Rathan Bridge Construction Kathani Kathani School (hand) Laisanio W.S (relaki filiation) Logiage M.S (relaki filiation)	Runjenjes Nombure Nombure Kyoni Manyata Nombure Manyata Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Central Manyatana Kat	1 2 3 4 5 7 7 8 9 9 10 11 1 3 3 4 5 6 6 7 8 9 9 1 2 2 9 9 1 2 4	GOK			
	(Extra Cound) Coundi) MWR	Proposals On Coing Projects New Project Proposals	Manyata Shaqhter-house construction Kathande Factory Road (marraning) Doschat Nijeta's Prix the Coffee Road (marraning) Kihasi Isebot Market Des elopment(construction) Kansangi Secondary School Water Tanktenarn size) Kgeari Kathati Road (marraning) Rathat Bridge Construction Kathati Bridge Construction Kathati Keremaathi Bridge Construction Stage Petry Road (marraning) Katare W.S (rehatilitation) Bridsas W.S (rehatilitation) Marile W.S (rehatilitation) Marile W.S (rehatilitation) Katada W.S (construction/tabat Itation) Cotab W.S (rehatilitation) Katada W.S (construction/tabat Itation) Catab W.S (construction/tabat Itation) Katada W.S	Ranjenjes Nembure Nembure Kjeni Manyata Nembure Manyata Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Central Mattena Kattena Neuther N	1 2 3 3 4 5 5 5 7 7 8 9 9 10 1 1 2 3 4 4 5 6 7 7 9 9 1 2 3 4 4 5 5 7 7 7 9 9 9 10 11 2 3 4 5 5 7 7 7 9 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	GOK           Community/GOK           Community/GOK           GOK			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyatia Shaqahtar-house construction           Kathande Factory Road (marraning)           Doephat (Neutra Finite Celler Road (marraning))           Kathande Factory Road (marraning)           Kathande Factory Road (marraning)           Kathande Factory Road (marraning)           Kathandi Kerndary School Water Tarktewarraning)           Kathani Kerndary School Water Tarktewarraning)           Kyaani Kaihuri Road (marraning)           Rathuri Kerndary School Water Tarktewarraning           Kathani Karana Mit Bridge Construction           Kinneus Kermannth Bridge Construction           Kinneus Kermannth Bridge Construction           Kinneus V. Stremashth Bridge Construction           Kinneus V. Stremashth Bridge Construction           Kinneus V. Stremashth Bridge Construction           Marille W.S (construction of pump house and tant)           Lociogen W.S (rehabilitation)           Logiagalani W.S (construction for pump house and tant)           Logiagalani W.S (construction for habilitation)           Logiagalani W.S (construction for pump house and tant)           Logiagalani W.S (construction for habilitation)           Logiagalani W.S (construction for pump house and tant)           Marile W.S (construction for habilitation)           Logiagalani W.S (construction for habilitation)           Logiagalani W.S (construction for habilitation)	Ranjenjes Nembure Nembure Kyeni Manyata Nembure Manyata Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Central C	1 2 3 4 5 5 7 8 9 9 10 11 1 2 3 4 5 6 6 7 7 8 9 9 1 1 2 2 3 4 5 6 7 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	GOK			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyata Shaqahra-house construction           Kathaole Factory Road (marraning)           Doephat (Next) First ac Celler Road (murraning)           Kithesi factory read(murraning)           Kithesi factory read(murraning)           Kathesi Senaday School Water Tanktewarentees)           Kigaani Kainui Road (murraning)           Katheni Kenaday School Water Tanktewarentees)           Kigaani Kainui Road (murraning)           Ratheni Karoaday School Water Tanktewarentees)           Kigaani Kainui Road (murraning)           Ratheni Karoaday School Water Tanktewarentees)           Kigaani Kainui Road (murraning)           Ratheni Karomanth Bridge Construction           Kiangu Factory Road (murraning)           Karare W.S (rehabilitation)           Dedasa W.S (rehabilitation)           Logologa W.S (rehabilitation)           Logologa W.S (rehabilitation)           Logologa W.S (rehabilitation)           Logologa W.S (rehabilitation)           Kalada W.S (construction for pump house and tant)           Margania W.S (construction for pump house and tant)           Margan W.G (construction for pump house and tant)           Logologa W.S (rehabilitation)           Kalada W.S (construction for pump house and tant)           Margan W.S (construction for pump house and tant)           Margan W.S (construction fo	Ranjenjes Nembure Nembure Kjeni Manjarta Nembure Manjarta Central Central Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Central Maiteona Laisamis Central Maiteona North Herr North Herr North Herr North Herr	1 2 3 4 5 6 6 7 7 8 9 9 10 1 1 2 3 4 5 6 7 7 8 9 9 1 2 2 8 9 9 9 9 9 1 1 2 5 8 9 9 1 9 1 1 2 3 3 4 5 8 9 9 1 9 1 1 1 5 8 9 9 1 9 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9	GOK           Community GOK           Commenity GOK           Com			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyata Shaqahtar.house construction Kathande Factory, Road (marraning) Doephat (hjota) Finist Colfee Road (murraning) Kithesi factory read(murraning) Kathanji Serondary School Water Tanktowatrasion) Kathanji Serondary School Water Tanktowatrasion) Kathanji Kerondary School Water Tanktowatrasion Kathanji Kerumanthi Bridge Construction Kathanji Kerumanthi Bridge Construction Kathanji Kerumanthi Bridge Construction Kathanji Keronanthi Bridge Construction Kathanji Keronanthi Bridge Construction Bedava W.S (rehabilitation) Bedava W.S (rehabilitation) Marite W.S (rehabilitation) Laisanjo W.S (rehabilitation) Kathanja W.S (rehabilitation) North W.S (rehabilitation) Kathanja W.S (rehabilitation) Kathanja W.S (rehabilitation) Kathanja W.S (rehabilitation) Kathanja W.S (rehabilitation) North W.S (rehabilitation) Kathanja W.S (rehabilitation) Kathanja W.S (rehabilitation) Kathanja W.S (rehabilitation) Kathanja W.S (rehabilitation) Kathanja S (borthole) North W.S (rehabilitation yatem) Kathanja W.S (rehabilitation yate	Ranjenjes Nembure Nembure Kjeni Moyata Nembure Manyata Central Central Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Central Mattena Kattena Nattena Nattena Nattena North Herr North Herr Astegreb Wes	1 2 3 4 5 6 6 7 7 8 9 9 10 1 1 2 3 4 5 6 7 7 8 9 9 1 2 2 8 9 9 9 9 9 1 1 2 5 8 9 9 1 9 1 1 2 3 3 4 5 8 9 9 1 9 1 1 1 5 8 9 9 1 9 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9	GOK           Community COK           GOK           Community COK           GOK           Community COK           Commenty COK           Commenty COK			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyata Shaqahra-house construction           Kathaole Factory Road (marraning)           Doephat (Next) First ac Celler Road (murraning)           Kithesi factory read(murraning)           Kithesi factory read(murraning)           Kathesi Senaday School Water Tanktewarentees)           Kigaani Kainui Road (murraning)           Katheni Kenaday School Water Tanktewarentees)           Kigaani Kainui Road (murraning)           Ratheni Karoaday School Water Tanktewarentees)           Kigaani Kainui Road (murraning)           Ratheni Karoaday School Water Tanktewarentees)           Kigaani Kainui Road (murraning)           Ratheni Karomanth Bridge Construction           Kiangu Factory Road (murraning)           Karare W.S (rehabilitation)           Dedasa W.S (rehabilitation)           Logologa W.S (rehabilitation)           Logologa W.S (rehabilitation)           Logologa W.S (rehabilitation)           Logologa W.S (rehabilitation)           Kalada W.S (construction for pump house and tant)           Margania W.S (construction for pump house and tant)           Margan W.G (construction for pump house and tant)           Logologa W.S (rehabilitation)           Kalada W.S (construction for pump house and tant)           Margan W.S (construction for pump house and tant)           Margan W.S (construction fo	Ranjenjes Nembure Nembure Kyeni Manyatta Nembure Manyatta Central Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Central Centra	1 2 3 4 5 5 7 8 9 10 1 1 2 3 4 5 6 7 8 6 7 3 4 5 5 6 7 1 2 3 4 5 5 6 7 1 2 3 3 4 5 5 6 7 1 2 3 3 4 5 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GOK           Community GOK           Community GOK           Commonity GOK           Commonity GOK           Commonity GOK			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyata Shaqahra-house construction           Kathaole Factory Road (marraning)           Doephat (Neutra Finite Celler Road (marraning))           Kithesi factory read(marraning)           Kithesi factory read(marraning)           Kithesi factory read(marraning)           Kathesi Secondary School Water Tanktewarraning)           Kithesi factory read(marraning)           Kathesi Kerndary School Water Tanktewarraning)           Rathen Kerndary School Water Tanktewarraning)           Rathen Bridge Construction           Kinnesi Kermanath Bridge Construction           Martine W.S (rethabilitation)           Legagalani W.S (construction riskel filtation)           Legisgalani W.S (construction riskel filtation)           Kaneda W.S (borchole)           Maltons w's (wells, storage and, distribution system)           Datana W.S (borchole)           Man	Ranjenjes Nembure Nembure Kyeni Manyatta Nembure Manyatta Central Central Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Central Central Central Central Central Central Central Central Central Central Central Central Central Central Central Central Maiteona Noitheon North Hort North Hort North Hort North Hort North Hort North Hort Sorth Hort Sorth Hort Sorth Hort Sorth Hort Sorth Hort North Entral Mitganiset West Mitga Mera East Adving a West	1 2 3 4 5 5 7 7 8 9 10 1 1 2 3 4 5 6 7 7 8 8 9 9 1 1 2 3 4 5 6 7 7 8 9 9 10 1 2 3 4 5 6 7 7 8 9 9 9 10 12 3 4 5 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GOK           Cox           Cox           Cox           Community/COK           Commenity/COK           Commenity/COK           Commenity/COK           Commenity/COK           Commenity/COK			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyatia Shaqahtar-house construction           Kathande Factory Road (marraning)           Doephat (hybra) Frints Code Road (murraning)           Kathande Factory Road (marraning)           Kathandi Kathande (marraning)           Rathand Kathande (marraning)           Rathandi Kathande Road (marraning)           Kathandi Kathande Road (marraning)           Kathandi Kathande Kathande           Martine W.S (relaktification)           Badawa W.S (new soorte)           Blis Water Pan (dealthing)           Laisanio W.S (relaktification)           Logioga W.S (relaktification)           Kathas W.S (relaktification)           Kathas W.S (relaktification)           Kathas W.S (relaktification)           <	Ranjenjes Nombure Nombure Kjeni Kjeni Manyata Nombure Manyata Central Central Central Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Central Maitona Maitona North Horr Abdugath West Mitganderu West	1 2 3 4 5 5 5 7 7 8 9 10 1 1 2 3 4 5 5 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 9 9 10 11 2 3 3 4 4 5 8 9 9 10 11 2 3 5 8 9 9 10 11 2 9 9 10 11 2 9 9 10 11 2 9 9 10 11 1 9 9 9 9 10 11 1 9 9 9 10 11 1 9 9 9 10 11 1 9 9 10 11 1 9 9 10 11 1 9 9 10 11 1 9 9 10 11 1 1 9 9 10 11 1 1 1	GOK GOK GOK GOK GOK GOK GOK GOK GOK GOK			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyata Shaqahra-house construction           Kathaole Factory Road (marraning)           Doephat (Neutra Finite Celler Road (marraning))           Kithesi factory read(marraning)           Kithesi factory read(marraning)           Kithesi factory read(marraning)           Kathesi Secondary School Water Tanktewarraning)           Kithesi factory read(marraning)           Kathesi Kerndary School Water Tanktewarraning)           Rathen Kerndary School Water Tanktewarraning)           Rathen Bridge Construction           Kinnesi Kermanath Bridge Construction           Martine W.S (rethabilitation)           Legagalani W.S (construction riskel filtation)           Legisgalani W.S (construction riskel filtation)           Kaneda W.S (borchole)           Maltons w's (wells, storage and, distribution system)           Datana W.S (borchole)           Man	Ranjenjes Nembure Nembure Kyeni Manyatta Nembure Manyatta Central Central Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Central Central Central Central Central Central Central Central Central Central Central Central Central Central Central Central Maiteona Noitheon North Hort North Hort North Hort North Hort North Hort North Hort Sorth Hort Sorth Hort Sorth Hort Sorth Hort Sorth Hort North Entral Mitganiset West Mitga Mera East Adving a West	1 2 3 4 5 5 7 7 8 9 10 1 1 2 3 4 5 6 7 7 8 8 9 9 1 1 2 3 4 5 6 7 7 8 9 9 10 1 2 3 4 5 6 7 7 8 9 9 9 10 12 3 4 5 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GOK           Cox           GOK           Cox           GOK           Cox           GOK           Cox           Cox           GOK           Cox           GOK           Cox           GOK           Cox           GOK           Cox           Cox           GOK           Cox           Cox           Cox           Cox           Cox           Cox           Cox			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyata Shaqhter-house construction Kathade Factory Road (marraning) Doephit (Fylets) Friyste Colfee Road(murraning) Kithedi factory stad(murraning) Kathadi factory stad(murraning) Kathadi factory stad(murraning) Kathadi Kathadi Road (murraning) Kathadi Kathadi Kathadi Kathadi Kathadi Kathadi Kathadi Kathadi (murraning) Kathadi Kathadi (murraning) Kathadi W.S (tehabiling) Laisania W.S (tehabiling) Laisania W.S (tehabiling) Logologa W.S (tehabiling) Logologa W.S (tehabiling) Kathadi W.S (tehabilingion) Logologa W.S (tehabilingion) Kathadi Kathadi Kathadi Kathadi Kathadi K	Ranjenjes Nembure Nembure Kjeni Manjata Nembure Manjata Central Centra	1 2 3 4 5 5 7 7 8 9 9 9 10 11 1 3 3 4 5 6 6 7 7 8 9 9 10 10 11 1 2 3 3 4 5 5 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GOK           Community/GOK			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyata Shaqhtar-house construction Kathande Factory Road (marraning) Doephet (Fyleta 3 Frist & Colfee Road (murraning) Kithesi factory sead (marraning) Kathangi Secondary School Water Tanktenatrasian) Kgeath Kathari Road (marraning) Rathan Bridge Construction Kathanir Karumanth Bridge Construction Karara W.S (rehabilitation) Bridasa W.S (rehabilitation) Bridasa W.S (rehabilitation) Bridasa W.S (rehabilitation) Logiage W.S (rehabilitation) Katacha W.S (rehabilitation) Katacha W.S (rehabilitation) Katacha W.S (rehabilitation) Kamaka Borshole Multona W.S (rehabilitation) Kaminge W.P (tanks and pipe) Nagang Iggi Nahane W.P Manitha Wonea Courge W.P(pipe) Kingung Y. (rehabilitation anthereh) Kanaga W.P (for hand W.P Manitha Wonea Courge W.P(pipe) Gathange W.P(fore) Kanaga W	Ranjenjes Nombure Nombure Nombure Kjeni Manyada Nombure Manyada Ochrad Central Central Central Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Laisamis Central Maitona Laisamis Central Maitona Maitona North Hort Abriege West Meirga Merea East Meirga Merea East	1 2 3 4 5 5 7 8 9 10 1 1 2 3 4 5 6 7 7 8 9 9 1 1 2 3 4 5 6 7 7 8 9 9 1 9 9 1 9 9 4 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GOK GOK GOK GOK GOK GOK GOK GOK GOK GOK			
	(Extra Cound) Coundi) MWR	Proposals On-Coing Proje-B New Project Proposals Ou Going	Manyatia Shaqahtar-house construction           Kathande Factory Road (marraning)           Dosephit (Fylets 3 First e Celler Road (marraning))           Kithesi factory read(marraning)           Kathande Factory Road (marraning)           Kithesi factory read(marraning)           Kathesi Senodary School Water Tanktewarraning)           Kathesi Kerndary School Water Tanktewarraning)           Kathesi Kerndary School Water Tanktewarraning)           Rathewarranith Bridge Construction           Kinnesi Kermanath Bridge Construction           Martine W.S (retharbitistion)           Leptasu W.S (retharbitistion)           Kaneda W.S (retharbitistion)           Leptasu W.S (retharbitistion)           Kaneda W.S (retharbitistion)           Kaneda W.S (retharbitistion)           Kaneda W.S (retharbitististion)           Kost and Gatarbautios	Ranjenjes Nembure Nembure Kjeni Moyatta Nembure Manyatta Central Central Central Central Central Central Central Laisamis Laisamis Laisamis Laisamis Laisamis Central Mangatanis Laisamis Central Maiteona North Hort North Hort	1 2 3 4 5 5 5 7 10 1 1 2 2 3 4 5 5 5 5 5 5 5 7 7 8 9 9 10 1 1 2 3 3 4 5 5 5 5 5 7 7 7 8 9 9 10 10 11 2 3 3 4 5 5 6 7 7 7 8 9 9 10 10 11 2 3 3 4 5 5 6 7 7 7 8 9 9 10 11 1 2 3 5 5 6 7 7 7 8 9 9 10 11 1 2 3 5 5 6 7 7 7 7 8 9 9 10 11 1 2 3 5 5 6 7 7 7 8 9 9 10 11 1 1 2 3 5 5 6 6 7 7 7 8 9 9 10 10 11 1 2 3 5 5 6 7 7 7 8 9 9 10 10 11 1 2 3 5 5 6 7 7 7 8 9 9 9 10 10 1 1 2 3 5 5 5 6 7 7 7 8 9 9 9 10 1 1 1 2 3 5 5 5 5 5 7 7 7 8 9 9 9 10 1 1 1 2 3 5 5 5 5 5 5 7 7 8 9 9 9 10 1 1 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	GOK           GOX           GOX           GOX           GOX           GOX           GOX           GOX           GOX           COX			

#### Tables

# Table - 3.2.1 (4/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997- 2001

- 2001

lántik <b>n</b>	Ageniy	On-Coing or New Project	Project Name	Division	Priority Ranking	Funding Source	Water	u-Related P Sewarace	
Mere	MAR	New Project	Mera w.'s (pipes)	Micigamiero West	1	COK COK		<b> </b>	}
<b>(6</b> 1997	(cont'd)	Proposals	Nubaw's	Abogeta	2	GOK	•	<u>}</u>	
			Kanyakine W.S (pipefines intake)	lgoji	4	GOK	•		
			Mwinol wis (rupes) Mwangathia (construction of intake and distribution)	Aboihugachi East	5	COK	•	1	1
		ļ	Koleichia w 5 (rank line)	Abothuroch West	6	GOK	٠		
- 1			Cikol Mweru w p (tank line)	lgoniton	7	GOK Community	٠		
		1	Thuura Gizki w p(intake line)	Mirigamieru Fast	6	GOK/Community	•	<u> </u>	<u> </u>
			Kithithing Uno's w'p (ante metant databeline fac)	Timan	9	COK Community	•		ļ
- 1			Katheri Ontulifi w'p fintake distribution)	Timau	10	GOK Community	•	<u> </u>	I
í			lehambara w p(intake distribution)	Abothug achi West	11	COK Community		+	Į
1		1	Muguna Katharantandi # p	Tunau	<u>. 12</u>	GOK Community	<u> </u>		
(			Moguna Menjera w p	Timau	13	COX Community	<b>↓</b> ●		<u></u> +
	MOLA	On Going	Construction of Fire station		1	Service charge			ł
	(Municipal	Piejects				IDA World Bunk			<u> </u>
1	Council of	New project	Urban Infrastructure Project	Municipality Minigamiery West	1 2	Local Cox & coal Authority		•	t—
	Meru)	Propesals	Improvement of Sewerage ponds	Surgamieru West	3	Lond Gov, Local Authority	t	1	<u>+</u>
			Construction of 3 additional Severate Ponds	Mingamiers West	4	Service charge		1	h
			Street Lighting	Kaaga Road	5	Service charge	· · · · ·	1	T
			Sewer Line Extension	Magaiano In Prince	6	Service charge	1	•	T
			Mukutano dinio(health)	Mukutano	7	Housing Fund			1
			Succilighting	Tunta and Ngala	5	Service charge		I	1
			Trunite Sewer	Municipality	8	GOK	<u> </u>	•	<u> </u>
i	MOLA	New Project	Construction of divisional office at Timau and Galin.bi	Abotheguens East	1	County Council	·		
	Men Coury	Proposals	Purchase vehicle for sevenue collection		2	County Council	+	_	<u> </u>
	Council)		Construction of divisional office at Katheri	Abothugachi West	3	County Council	<b>i</b>		1-
	-	1	Construction of divisional office at Thuura and Igop	Mirigamieru East	4	County Council			+
		+	Construction of Studium	Kaser, Team Niphs	5	County Council GOK/Action Ad Kraya	1.		+
ak terni	MAR	On Going	Kitumbulyu W/S Phase II (electrification of pimping)	Matinda	1 2	GOK	1 -		+
1		Projects	Wote W.S(gipe pumping)	Wate		GOK		1	+
			Makinda W/S(pipe, tank)	Kisac	4	GOKWUAS		1	1
		1	Mumbani W.S(rehabilitation, pomping)	birmin Laboren	5	World Vision Kenya	•		1
			Mathangathi Rock Catchment (tank) Romba W/P(tank/pipelines)	No an (Mar She	6	World Vision Kenya	•		
			Mbilini W.P(pipeline)	Ky consch Mable	7	0444 (4-55)0A04			
			Kyusyani W.P (intake pump house hant pipeline)	Maito-Andei	8	Catholic church	۰		_
			Small Earth Dams Pans	district wide	9	NGOs			
	l		Shallow wells-Springs Sans Dams	district wide	10	NOOs			
			Emali W P(pipeline)	Emati Mutala	<u> </u>	<u>NWCPC</u>			
			Simba W'P(pipeline)	Neur Matileku	12	NWCPC	<u>↓ •</u>		-
		New Project	Muani-Kasiken #/p	Glone	+	GOK Donor	∔.●	-+	-+
		Proposals	Kalamba Dam	Mahiliku	2	GOK/Donor GOK/Donor	+	-	
	1	1102-00-823	Mito-Andei & Strehabilitation)	Ngrata Miko Aadri	4	GOK/Donor	-		
			Kinguni Kalawa w prichabilitation and expansion)	Kalawa Districtwide	5	Keening De Pageme			+
			Borehole Project	Districtwide	1 é	COK NOO TARDS	-		
	MWR	On Going	Maringi W.S (rehabilitation of intake)	Central	1	COK.	1 0	1	1-
1 ing	MWK.	Projecto	Kiambers W.P (construction of a new water supply)	Manual Rows Colled	2	GOK		1	
		i logeto	Mewani W/S (replacement/construction)	Migwani	3	COK		<u> </u>	
			Ngomeni W/S (rehabilitation, desilting)	Nguni	4	<u> </u>			
			Ky 250 * 5	Kyuso	5	GOK			
			Kaanzuo W.S	Nuo	6	GTZ.GOK	<b>_</b>		
	1		Lassi W Pfretaining wall pumping bouse tank)	Nguni	1	EECGOK	<u> </u>		. <b></b> .
		1	Ut asi Berchole distribution extension)	Nguni		GOK			
			Kyuso Berchele(berchele/pipeline)	Кушьо	- 2	AAK GTZ GOK	╌╏╴		+
			Mathuki Kabijai W/S (gravity)	Nou	- 10	GOK GTZ/GOK	╧╌┢		+
			Thitadi W/P (borcholes)	Migwani	$\frac{1}{1}$	COK/Donor	1 👬	+	+
		New Project	Kyuso 18,5 (F.S on alternative water supply)	Kyuso Ngani	1 2	COK Donor		- +	-
	1	Proposa's	Neomeni w/s(rehabilitation of line)	Tsokuro	1 3	COK Donor	-	1	
	1	1	Notite w S(pump house tang cam) Planning and design of w/p	District wide	1-1-	COK Donor	•		
	1		Viates Conservation	Districtwide	5	OOK Donor	•		
	1		groundwater Dev (borcholes)	Districtwide	6	GOK Donor	•		1.
			Usi Witu Sub-Surface Dam	Tseituru	7	GOK Donor			_
			Thitani w/p(rehabilitation and extension)	Mgwani	8	GOK Denor		-	
			Kijo Rock Carchment	Central	9	COK Donor			
		1	Kwa Kasovi Farth Dam	Central	11	COK Donor	- <u> </u>		
	1		Subsurface Dams along Ty2a River		12	GOK Donar		<u> </u>	<u> </u>
	MOLA	On-Going	Road Grading (feeder road)	District ride		Service charge			-+
	1	Projecto	Public Conseniences(toilets)	Non No. En. T. inter		Service charge	+		
	1	Ne= Project		Central	1 - 2	Rate / Service charge	+	···· • • · · · · •	-
	1	Proposais	Fending of market	district wide		Service charge donora		-+	+
	1		Public Conveniences(toritets)	fistict wide	4	MCC/Donor			
	1		Grading of Roads	district wide		- Percention			
	1	ļ	Borchole /Earth Project	<u> </u>	6	1	1-		-+
			Tourism Development	Central	1	Las Meren Sera - Dep			
	Mwiagi	On-Going	Read Grading	Central	2	GOK			-t
	Liban	Projects	Bus park and open air market	- Central Central		MC			1
	Council	New Project		Urban council	- 2	MLCDonor	-+	1	-
	Ţ	Proposets	Access read grading	Liban council				•	-+
	1	i i	Sewerage, beatment works and drainage fines	Towa		MUCDoner			
		ł	Refuse collection	Urban council		MUC/Donor			-1
			Purchase vehicle for revenue collection	Urban council		MUC/Doove	-		
			Stadium Fending	Urban council		MCDoner	•		-1-
		1	Town W'S Sweet Lichfing	Town		MUCDutter			1

The Aftercare Study on the National Water Master Plan

## Table - 3.2.1 (5/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997 - 2001

Thataba	Agency	On Coing or New Project	Project Name	Division	Priority Ranking	Funding Source		-Related P Sew crage	
	MAR	On Going	Chuka W.S (intake pipes gravity)	Chuła	1	QOK .	•	1	
Nithi	-	Projects	Chogoria Thigas W.P (intake pipes (gravin))	Maimbi	2	COK Community	•	1	
			Karingani Rural W/S (mashining rousin tion of tank)	Chuka	3	00K	•	-	
- 1			Moungau W.S(gravity tchabilitation)	Tharaka South	4	COK	i i		
			(kuma Magutuni W.P (gravity tank distribution)	Meimbi	5	OOK Church Self-help	i i		
			Migumoni water and sanitation P	The doju de pure contrat		COK EEC/Self help			
1				Muthambi		COK Self-belp			
1			Murugi Magumango WP (distribution)						1
			Carus Kitarima W.P (pipes inste)	Mithera		COK Self-help	+		<u>}</u>
			Gachuku W.P	Mwimbi	9	GOK Self-help	•		<b>∔</b>
			Nuntuni Miltungo W P	Chuka	10	GOK 5=H-help			<u> </u>
			Moguri W P (gravity)	Mvimbi	11	COK Self help		ļ	ļ
			Maturi W.P	Mvimbi	12	GOK Self help	•	Ļ	Į
		1	skwp	Muthambi	13	COK Self help	•	l	L
			Marimant water furrow	Tharaka South	14	COK5ctf-help		<u>}</u>	
			Nond water furrow	Tharaka Central	15	GOKSelf help		1	
			Mittungau Tanyai water furrow	Thataka Central	15	COX Soff-belp			ļ
			Water use supply P	District wide	17	GOKSIDA	l è i		1
			Water use resources assessment study	District wide	18	COK	•		Τ
			Self-belp W.P	District-wide	19	GOK	•		1
1			Urban W/S and sewerage	Chuka	20	COK			
		1 I	Rehabilitation of water supplies	District-wide	21	COK		· · · · ·	<u> </u>
						OOKSIDA			<u> </u>
		h	Tharaka Water and sanitation P	The designed same case of	22				!
		New project	Gatunga W.P	Tharaka North		COK	<u> </u>		1
		Properais	Mulindwa East West # p	Mwimbi	2	GOK		L	Ļ
) Tuppeur	MAR.	On Coing	Mauz W/S (rehabilitation)	Cantral Maua	<u> </u>	GOK	•		
		Projects	Tiganja Rural w.'s	Tigania	2	GOK	•	L	Ľ
			Mikinguri market water sapply	Mitindun	3	Local Community		1	
ļ		New Project	Tigani Roral w's (intel etank fines)	Tigania	1	GOK/Donor		1	
ł		Proposals	Shus w S (line tank)	lgembe	2	GOK Donor		1	1
		1	Tira Usofi Roral w.3 (borchoics pan)	Igembe	3	GCKDonor	1 · ·	1	1
I		1	Northern Grazing Area w's (borehole)	120010	1	GOK Doner		t	<u> </u>
			FS Planning and Design(surface and ground water)		5	COX COX		t	t
Sheere									<b>I</b>
SPECIE	MAR	On Going	Ena Siakago W.P (pipes intake)	GarbotzSizkago	1	GOK	<b></b>		I
		Projects	Gangara W P(intake boc)	Siatago		COX			1
			Ishiara W.S (intake line)	bhara	3	ÇOK			<u></u>
		New Project	Cachota ='p (F5)	Cachola	1	Plan International	<u> </u>		
		Proposals	Makima w'p (distribution lines)	Mires .	2	COK KWS	•		1
			Nois - Mathenge w'p (intat e pomping dus bullen)	Gachota	3	COK	•		
I			Office construction	ferrer, Merce, Dar Balts	4	COK	1		
			Kambere Dam w'p	Sial ago	5	TARDAGOK	•		<u> </u>
			Borehole Deilling Programme	Mwca	6	Pian International	•		1
Cariosa	MAR	On Going	Carissa Utban W.S (boreholes distribution)	Township Central	1 î	COK.	i i		<u> </u>
		Projects	fara Water Dam	1 jara	2	<u>~~</u>	<u> </u>	· ·	t
		incjeco.				200		·	
			New Garissa Urban W/S	Township/Central	3				<b>-</b>
			Dujis Borehole	Dujis Balambale	4	GOKUNCEF			ł
		L	Masalani W.S (schabilitation)	Masalani	5	GOK		<u> </u>	1
		New Project	Borcholes Projects	Districtwide	1	OOK/Egyptian Gov.			I
- 1		Proposals	Roral w 5 (rehabilitation)	Districtwide	2	COKANCEF	•		
			ljara mia	Ijara Masalani	3	OOK	•	1	
			Dam Construction Unit (rehabilitation of machinery)		4	CORANCEF	•	1	1
- 1			Modogashe w.5		5	COK/SDD	•		
			Kamuthi # 's	Kam athi, Bura	6	COX/SDD			1
			Pollution Control and Water Seurera Protection.	Districtwide	1 7	GOK	1 🍋	+	
			Naright w.S	Nanighi/Bure	6	COKSLO			+ · · ·
			Office construction		1 3		┼╌╹─		+
1				Dadaab 1 jara		<u> 00K</u>			<b> </b>
						GOK			
			Danyare Dam	Duryen Belanten	10			4	÷
			Bodhai w's		11	GOK	•		
			Bodhai w's Alango Arba w's	Daryen Bohateh Bothai Tjara			•		<u> </u>
-Sedera	MAR	On Going	Bodhai w's		11	GOK		<u> </u>	
Sedera	MWR	On Going Projects	Bodhai w's Alango Arba w's	Bothai Tjara	11	<u>сок</u> сок	•		
Sedera	MWR		Bodhai wis Alango Arba wis Rehabilitation of water supplies (metre manyomping)	Bothai Ijara District-wide	11 12 1	COK COK	•		
Sedera	MWR		Bothai w's Alance Arba w's Rehabilitation of water supplies (mdon wropenping) Construction of w3(fit estendi w's) Construction of w3(fit estendi w's)	Bothai Tjara Disblict-wide Disblict-wide Control London 3	11 12 1 2 3	СОК СОК СОК СОК	•		
Sedera	MWR		Bothai w's Alanco Arba w's Rehabilitation of water supplies (mean wire penging) Construction of w3(fir caloci w5) Construction of w3(fir caloci w5) Construction of w3 (tack fire)	Bothai Tjara Disbitet wide Disbitet wide Cratabilanten J. Eiwak	11 12 1 2 3 4	СОК СОК СОК СОК СОК	• • • •		
5nde.ra	MWR		Bodhaj w 5 Alanco Arba w 5 Rahabilistos of w ater seppiter (mórn wergenging) Construction of w 3(Greateda w 5) Construction of w 3(Greateda w 5) Construction of w 3 (great Great Construction of w 3 (great Great)	Bothai Tara District wide District wide Connolimentari Elwak Rhamu	11 12 1 2 3 4 5	СОК СОК СОК СОК СОК СОК СОК	• • • •		
5n dera	MWR		Bodhai w 5 Alance Arba w 5 Rehabilization of walter supplies (mean retry reging) Construction of walter supplies (mean retry reging) Construction of walter (supplies) Construction of walter (supplies) Construction of walter (supplies) Construction of walter (supliman) Construction of walter (supliman)	Botha Tara District wide District wide Contribution 7 Elwak Rhann Khala Typ	11 12 1 2 3 4 5 6	СОК СОК СОК СОК СОК СОК СОК	• • • • •		
5ndera	MWR		Bothai w's Alance Arba w's Rehabilitytion of water supplies (mean wanyonging) Construction of w.3 (fit esteed w.5) Construction of w.3 (fit esteed w.5) Construction of w.3 (fit esteed w.5) Construction of w.3 (fit kine) Construction of w.3 (fit kine) Construction of w.3 (fit kine) Construction of w.5 (fat kine)	Bothal Tara Disbict-wide Disbict-wide Control Mattern T Elwak Rhann Khalafiyo Central	11 12 1 2 3 4 5 6 7	СОК СОК СОК СОК СОК СОК СОК СОК			
brðera	MWR		Bedhaj w 5 Alance Arba w 5 Rahabitistes of w site: supplie: (mdon wini)emping) Construction of w 3(Sir caled w 5) Construction of w 3(Sir caled w 5) Construction of w 3(Caled W 6) Construction of w 3(Caled W 6) Construction of w 3(Caled W 6) Construction of w 5 (Caled W 6) Construction of w 5 (Caled W 6) Construction of w 6  Construction of w 6 (Caled W 6) Construction of w 6) Construction o	Bothai Tara District wide District wide Carabinates 1 Elwak Rhanu Khalifyo Central Shimble Faruma	11 12 1 2 3 4 5 	Сок Сок Сок Сок Сок Сок Сок Сок Сок Сок			
bođena	MWR		Bothai w 5 Alance Arba w 5 Rehabilitation of water supplies (mean werepenping) Construction of water supplies (mean werepenping) Construction of water (the super- Construction of water (the super- super- construction of water (the super- construction of water (the super- super- super- super- construction of water (the super- super- construction of water (the super- construction of water (the super- construction of water (the super- construction of water (the super- super- construction of water (the super- construction of water (the super- super- construction of water (the super- super- super- construction of water (the super- super- construction of water (the super- s	Bothai Tjara Dabini: wide District wide Connolimeten 3 Ebrah Rhamu Khabilyo Central Shinbi Fanqua Malkangari	11 12 1 2 3 4 5 5 7 8 9	Сок Сок Сок Сок Сок Сок Сок Сок Сок Сок			
5n deva	MWR	Projects	Bothai w's Alance Arba w's Achabilization of walter supplies (mean menyemping) Construction of walter supplies (mean menyemping) Construction of walter (Second with) Construction of walter (Second with) Construction of walter (Second Walter) Construction of walter (Second Walter) Construction of walter (Second Walter) Construction of walter) Construction of walter Construction of walter Construction of walter (Second Walter) Construction of walter (Second Walter) Construction of walter Construction of walter (Second Walter) Construction of walter (Second Walter) (Second W	Bothai Tjara Disbict wide District wide ConstMasters 1. Elwak Rhamu Khalafiyo Central Shimble Faturas Maltanari Dahasif	11 12 1 2 3 4 5 6 7 8 9 10	СОК СОК СОК СОК СОК СОК СОК СОК СОК СОК			
5oden	MAR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Rehabilisten of w alex appytics (mdon werepenping) Construction of w 3/(5 calock w 5) Construction of w 3/(5 calock w 5) Construction of w 3/(calock w 5) Construction of w 3/(calock force) Construction of w 3/(calock force) Construction of w 5/(calock force) Dilling, of a borchoic Construction of w 5/(calock force) Construction of w 5/(calock force)	Bothai Tjara Dubiric wide Di biric wide Connol Markin T Biru k Rhaanu Khalafayo Central Shimble Foruma Malitanari Dabaahi Haren	11 12 1 2 3 4 5 6 7 8 9 10 1	COK			
Sođera	MWR	Projects	Bothai w's Alance Arba w's Achabilization of walter supplies (mean menyemping) Construction of walter supplies (mean menyemping) Construction of walter (Second with) Construction of walter (Second with) Construction of walter (Second Walter) Construction of walter (Second Walter) Construction of walter (Second Walter) Construction of walter) Construction of walter Construction of walter Construction of walter (Second Walter) Construction of walter (Second Walter) Construction of walter Construction of walter (Second Walter) Construction of walter (Second Walter) (Second W	Bothai Tjara District wide District wide Conniktusten 1. Eine ak Rhaharo Khahafayo Central Shinghir Fatura Malharoari Dahashir Fatura Hereri huru, Tangbahatata	11 12 1 2 3 4 5 6 7 8 9 10	СОК СОК СОК СОК СОК СОК СОК СОК СОК СОК			
bodera	MWR	Projects New Project	Bothai w 5 Alance Arba w 5 Achabilitation of walter supplies (mean mempeoping) Construction of walter supplies (mean mempeoping) Construction of walter (see Supplier) Construction of walter (see Supar) Construction of walter (see Supar) Construction of walter (see Supar) Construction of walter (see Super) Construction of walter (see Super) Construction of walter (see Super) Dilling of a borchoic Construction of walter (see Super) Construction of walter (see Super) Photogeneous (see Super)	Bothai Tjara Dubiric wide Di biric wide Connol Markin T Biru k Rhaanu Khalafayo Central Shimble Foruma Malitanari Dabaahi Haren	11 12 1 3 4 5 7 8 9 10 1 7 2	COK COK COK COK COK COK COK COK COK COK			
hedera	MWR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Rehabilisten of w alex appytics (mdon werepenping) Construction of w 3/(5 calock w 5) Construction of w 3/(5 calock w 5) Construction of w 3/(calock w 5) Construction of w 3/(calock force) Construction of w 3/(calock force) Construction of w 5/(calock force) Dilling, of a borchoic Construction of w 5/(calock force) Construction of w 5/(calock force)	Bothai Tjara District wide District wide Conniktusten 1. Eine ak Rhaharo Khahafayo Central Shinghir Fatura Malharoari Dahashir Fatura Hereri huru, Tangbahatata	11 12 1 2 3 4 5 6 7 8 9 10 1	COK			
ðaðen	MWR	Projects New Project	Bothai w 5 Alance Arba w 5 Achabilitation of walter supplies (mean mempeoping) Construction of walter supplies (mean mempeoping) Construction of walter (see Supplier) Construction of walter (see Supar) Construction of walter (see Supar) Construction of walter (see Supar) Construction of walter (see Super) Construction of walter (see Super) Construction of walter (see Super) Dilling of a borchoic Construction of walter (see Super) Construction of walter (see Super) Photogeneous (see Super)	Bothai Tjara Disbici, wide District wide ConnolManden 3 Elwak Rhanno Khabilyo Central Shinbik Fanuna Malkarpari Dabashi Herei Herei	11 12 1 3 4 5 7 8 9 10 1 7 2	COK COK COK COK COK COK COK COK COK COK			
bodera	MWR	Projects New Project	Bothai w 5 Alance Arba w 5 Achabilitation of walter supplies (mean mempeoping) Construction of walter supplies (mean mempeoping) Construction of walter (see Supplier) Construction of walter (see Supplier) Dilling of a borchole Construction of walter (see Supplier) Construction of wa	Bothii Tjara Dubiric wide Diniric wide Commission wide Rhanno Rhalafayo Central Shimbir Fanqua Malkargari Dab ahi Heren Taren Tarenbukataan Dina France	11 12 1 3 4 5 7 8 9 10 1 7 2	COK COK COK COK COK COK COK COK COK COK			
bndera	MWR	Projects New Project	Bodhaj w 5 Alanco Arba w 5 Rehabilistica of w stat supplice (mdon werepenping) Construction of w 3(\$1 calcularis) Construction of w 3(\$1 calcularis) Diffing of Boscholes Dande w 4 (sock calcularis)	Bothai Sjara Dabaici, wride District wride ConnolManden 3 Elwak Rhaanu Khahifyo Central Shinbir Franza Malkargari Dabashi Hiero A Harra Fanghabababa Dabashi Hiero A Harra Stanghabababa Dabashi Hiero A Harra Stanghabababa Dabashi Jara Janghabababababababa Janghababababababababababababababababababab	11 12 1 2 3 4 5 6 7 8 8 9 10 10 1 2 3 4	COK           COK/Dener           COK/Dener/NOO           COK/Dener/NOO			
bnđera	MWR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Alance Arba w 6 Alance Arba w 6 Construction of w 32(Streated w 5) Construction of w 32(Streated w 5) Construction of w 32(Streated w 5) Construction of w 32(Streated w 6) Construction of w 73(Streated w 6) Construction of w 74(Streated w 74) Construction of w 74(Streated	Bothai Tjara Dubiric wide Dirici wide CornolAustern T Elbe k Rhaanu Khalafayo Central Shingbir Faraga Malikargari Dab ahi Hereri Rama Tang Shingbir Hereri Rama Tang Shingbir Hereri Rama Tang Shingbir Hereri Marina Dahi Marina Dahi Marina Dahi Marina Dahi Dando Central	11           12           1           2           3           4           5           6           7           8           9           10           1           2           3           4           5	COK COK COK COK COK COK COK COK COK COK			
binđera	MWR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Construction of white supplice (mdon werepenping) Construction of w 3(Greated w 5) Construction of w 3(Greated w 5) Construction of w 3(Greated w 5) Construction of w 3(Greated were) Construction of w 5(Greated were) Shaf-Shafey w 5(Greated were) Construction were) Construction of w 5(Greated were) Construction of w 5(Greated were) Construction of w 5(Greated were) Construction of w 5(Greated were) Construction of were) Construction of w 5(Greated were) Construction of w 5(Greated were) Construction of were) Construction of were (Greated were (Greated were) Construction of were (Greated were (Greated were) Construction of were (Greated	Bothai Tjara Dubinic wide Diarict wide ConnolAusten 1 Elwalt Rhaanu Khalafiyo Central Shinghir Fatuga Malitangari Dahati Hereni Neuri Tean Dahatalan Seing Feas Seing Feas Seing Feas Seing Feas Seing Feas Seing Feas	11 12 1 2 3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10	COK           COK/Denor           COK/Denor/NGO           COK/Denor/NGO           COK/Denor/NGO           COK/Denor/NGO           COK/Denor/NGO           COK/Denor/NGO			
bnđe <i>m</i>	MAR	Projects New Project	Bedhai w 5 Alance Arba w 5 Alance Arba w 5 Arbabilistics of water supplies (mean werepenping) Construction of w 3(Grant Surch Construction of w 3(Grant Surch Advance Surch Advance Surch Danda w 4 (cock calchment) Shaf Shafey II and B.P. I w 3(Shallow welle) (Shamu Diret w 5(Grac)	Bothai Tjara District wide District wide Connibusion 3 Eine ak Rhame Khahliyo Central Shingbir Franza Malitargari Dahashi Hereni Neuro Tonghank Jahan Parkashi Neuro Tonghank Jahan Dahashi Hereni Neuro Tonghank Jahan Dahashi Maritargari Dahashi Hereni Shingbir Franza Janda Central Shingbir Jama	11           12           3           4           5           6           7           8           9           10           1           2           3           6           7           3           6           7           3           4           5           6           7	COK COK COK COK COK COK COK COK COK COK			
bođe.n	MWR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Alance Arba w 6 Exhabilization of w 31ct appySci (mdon werepenping) Construction of w 32 (Wasterd w 5) Construction of w 32 (Wasterd w 5) Construction of w 3 (Mack Jourg) Construction of w 34 (Mack Jourg) Construction of w 16 (Mack Jourg) Shaf-Shafey w 16 (Mack Jourg) Shaf-Shafey w 16 (Mack Jourg) Shafes Shafey II and B.P. I w 16 (Mallow wells) Khamo Dimto w 5((Mack Jourg))	Bothai Tjara Dubiric wide Di biric wide CornolAustra T Bhu k Rhaano Khalafayo Central Shingbir Faruma Malitaroari Dabashi Haren Taeschalashalan Dabashi Haren Taeschalashalan Dabashi Haren Taeschalashalan Dabashi Mar ar Leas Dando Central Central Rhame Dimtu Fino	11 12 1 2 3 4 5 6 7 7 8 9 10 1 1 2 3 4 5 6 7 7 8 9 10 1 1 2 5 6 7 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1	COK COK COK COK COK COK COK COK COK COK			
baðera	MWR	Projects New Project	Bedhai w 5 Alance Arba w 5 Alance Arba w 5 Construction of white supplice (mean werepenping) Construction of white supplice (mean werepenping) Construction of white (mean function) Construction of white (mean function) Construction of white (mean function) Construction of w 5 (mean) Construction of w 5 (means) Construction of w 5 (means) Shaf-Shafey if and B.P. Tw 5 (shallow webs) Rham Dimter w 5(mean) Rham Dimter w 5(mean) Construction (mean) Construction (mean) Rham Dimter w 5(mean) Construction (mean) Rham Dimter w 5(mean) Construction (mean) Rham Dimter w 5(mean) Rham Dimter w 5(mean) Construction (mean) Construction (mean) Rham Dimter w 5(mean) Construction (mean) Rham Dimter w 5(mean) Construction (mean) Construction (mean) Construct	Bothai Tjara Dubiric wide Dibrict wide Carnel/Lunden 3 Elwak Rhamu Khalafiyo Central Shinghir Fatuga Malitargari Datualis Hieref Name Central Shinghir Fatuga Malitargari Datualis Hieref Name Central Shinghir Fatuga Datualis Hieref Name Central Central Central Rhame Ching Fino S	11           12           2           3           4           5           6           7           8           9           10           1           3           4           5           6           7           3           4           5           6           7           3           6           7           8           9	COK COK COK COK COK COK COK COK COK COK			
5 n đera	MWR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Alance Arba w 6 Exhabilization of w 31ct appySci (mdon werepenping) Construction of w 32 (Wasterd w 5) Construction of w 32 (Wasterd w 5) Construction of w 3 (Mack Jourg) Construction of w 34 (Mack Jourg) Construction of w 16 (Mack Jourg) Shaf-Shafey w 16 (Mack Jourg) Shaf-Shafey w 16 (Mack Jourg) Shafes Shafey II and B.P. I w 16 (Mallow wells) Khamo Dimto w 5((Mack Jourg))	Bothai Tjara Dubiric wide Di biric wide CornolAustra T Bhu k Rhaanu Khalafayo Central Shingbir Faruma Malitargari Dabashi Haren Tang hala har Dabashi Haren Tang hala har Dabashi Haren Tang hala har Dabashi Mara Lang Dando Central Central Rhame Dimtu Fino	11 12 1 2 3 4 5 6 7 7 8 9 10 1 1 2 3 4 5 6 7 7 8 9 10 1 1 2 5 6 7 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1	COK COK COK COK COK COK COK COK COK COK			
5nđera	MWR	Projects New Project	Bedhai w 5 Alance Arba w 5 Alance Arba w 5 Construction of white supplice (mean werepenping) Construction of white supplice (mean werepenping) Construction of white (mean function) Construction of white (mean function) Construction of white (mean function) Construction of w 5 (mean) Construction of w 5 (means) Construction of w 5 (means) Shaf-Shafey if and B.P. Tw 5 (shallow webs) Rham Dimter w 5(mean) Rham Dimter w 5(mean) Construction (mean) Construction (mean) Rham Dimter w 5(mean) Construction (mean) Rham Dimter w 5(mean) Construction (mean) Rham Dimter w 5(mean) Rham Dimter w 5(mean) Construction (mean) Construction (mean) Rham Dimter w 5(mean) Construction (mean) Rham Dimter w 5(mean) Construction (mean) Construction (mean) Construct	Bothai Tjara Dubiric wide Dibiric wide ConnolAustern 1 Elwak Rhamu Khalafiyo Central Shinghir Fatuga Malkargari Dabailis Fatuga Malkargari Dabailis Hieref Name Central Shinghir Fatuga Dabailis Hieref Name Central Central Central Rame Camp	11           12           2           3           4           5           6           7           8           9           10           1           3           4           5           6           7           3           4           5           6           7           3           6           7           8           9	COK COK COK COK COK COK COK COK COK COK			
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5nđera	MWR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Exhabilization of water supplice (mdon waterproping) Construction of w 2(firestock w 5) Construction of w 2(firestock w 5) Construction of w 2(firestock w 5) Construction of w 3(firestock w 5) Construction of w 5(firest) Construction of w 5(firest) Philing of Brecholes Dande w 8(ford, exteriment) Shaf-Shafey II and B.P. Tw 5(firest) Rhame Dimers w 5(fire) Arabis w 3(firest) Construction of Brecholes Construction of Bercholes Construction of Bercholes Construction of Bercholes Construction of Bercholes Construction of Bercholes Construction of Bercholes	Bothai Tjara Dubiric wide Dibrict wide ConnolAustern 1. Elba k Rhannu Khalafiyu Central Shingbir Farunga Malitangari Dabairis Hieren Name Kang Dabairis Hieren Name Kang Central Rhanna Dimty Kang Central Rhanna Dimty Kang Central Rhanna Dimty Fino S Lidey Kang Central Central Central Central Central Central Central	11           12           2           3           4           5           6           7           8           9           10           3           4           5           6           7           3           4           5           6           7           3           6           7           8           9           10           11	COK COK COK COK COK COK COK COK COK COK			
bedera	MWR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Alance Arba w 6 Construction of w 3102 supplics (mdon werepenping) Construction of w 32 (Wasterd w 5) Construction of w 32 (Wasterd w 5) Construction of w 3 (wastfung) Construction of w 3 (wastfung) Construction of w 3 (wastfung) Construction of w 5 (pan) Oxiling of a borchole Construction of w 5 (pan) Oxiling of Brecholes Dandw w 8 (rest catchment) Shaf-Shafey w 5 (new water sapph) Shaf-Shafey w 5 (new water sapph) Shafe Shafey i 1 and B.P. 1 w 5 (shallow wells) Khamu Dimtu w 5(for) Arabia w 1 (wast	Bothai Tjara District wide District wide ConnolAusten 1 Elwalt Rhanno Khalafyy Central Shinghir Faturna Malitaroari Dayasif Heren Name Tean Dayasif Heren Name Tean Dayasif Heren Name Tean Dayasif Heren Name Tean Dayasif Heren Res Tean States Westen Central Rhanne Dimite Fino Lafey Fen Gen Wyster or Brades Central	11           12           1           2           3           4           5           6           7           8           9           10           1           2           3           4           5           6           7           8           9           10           1           2           3           4           5           6           9           10           1           2           3           4           5           6           9           10	COK           COK/Denor			
5 n đera	MWR	Projects New Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Exhabilization of water supplice (mdon waterproping) Construction of w 2(firestock w 5) Construction of w 2(firestock w 5) Construction of w 2(firestock w 5) Construction of w 3(firestock w 5) Construction of w 5(firest) Construction of w 5(firest) Philing of Brecholes Dande w 8(ford, exteriment) Shaf-Shafey II and B.P. Tw 5(firest) Rhame Dimers w 5(fire) Arabis w 3(firest) Construction of Brecholes Construction of Bercholes Construction of Bercholes Construction of Bercholes Construction of Bercholes Construction of Bercholes Construction of Bercholes	Bothis Tarra District wide Oran Manager Rhadour Rhadour Rhadour Rhadour Shingbir Fangus Malkangar Malkanga	11           12           2           3           4           5           6           7           8           9           10           3           4           5           6           7           3           6           7           3           6           7           8           9           10           11	COK COK COK COK COK COK COK COK COK COK			
5nđera	MWR	Projects New Project	Bedhaj w 5 Alanco Arba w 5 Alanco Arba w 5 Exhabilization of water supplice (mdon wateronging) Construction of w 2(firestock w 5) Construction of w 2(fack func) Construction of w 3(fack func) Construction of w 3(fack func) Construction of w 5(fach) Construction of w 5(fach) Dandu w 8(fack catchment) Shaf Shafey II and BP. I w 5(fach) Rhamo Dietra w 5(fach) Andia w 5(fach) Rhamo Dietra w 5(fach) Andia w 5(fach) Lafey w 5(fach fine) Construction of w 6(fach) Construction of w 6(fach) Construction of w 6(fach) Construction of w 6(fach) Construction of facilities	Bothii Tjara Dibirici wide Dibirici wide CornolAustra J. Bhu k Rhaano Khalafayo Central Shingbir Faruma Malitangari Dabashi Haren Bart Faruma Malitangari Dabashi Haren Bart Faruma Malitangari Dabashi Haren Bart Faruma Marina Contal Central Roman Linder Lidey Ke, Gent Nyadarat Barta Sanaka Sanaka Lidey Ke, Gent Magdarat Barta Sanaka Sanaka Central C	11           12           2           3           4           5           6           7           8           9           10           3           4           5           6           7           3           6           7           6           7           6           7           8           9           10           11           12	COK COK COK COK COK COK COK COK COK COK			
		Project New Project Proposals	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Rehabilitation of water supplies (mean many mapped) Construction of w 3(firesteel w 5) Construction of w 3(farektions) Construction of w 3(farektions) Construction of w 3(farektions) Construction of w 5(farektions) Construction of w 5(fare) Construction of w 5(fare) Construction of w 5(fare) Construction of w 5(fare) Construction of w 5(fare) Daming of a borchoic Construction of w 5(fare) Daming of Borchoics Daming w 6(fore) catchment() Shaf Shafey W 5(fare) Nature Dimet w 5(fare) Arabia w 6 (rank fare) Construction of w 5(fare) Construction of w 5(fare) Staf Shafey W 5(fare) Construction of w 5(fare) Construction of w 5(fare) Construction of w 5(fare) Staff Housing and Elecutions	Bothai Spara Dublick wide Diblick wide ConnolAusten 3 Elwalt Rhaanu Khalafyo Central Shinghir Fatuga Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Malitanoari Dahalifyo Kanata Central Rhama Dimbu Central Rhama Dimbu Central Romana Romana Central Romana Romana Romana Central Romana Central Romana Central Romana Central Romana Central Romana Central Romana	11           12           2           3           -	COK           COK/Denor           COK           COK			
bođera Wajir	MWR MWR	Projects New Project	Bedhaj w 5 Alanco Arba w 5 Alanco Arba w 5 Exhabilization of water supplice (mdon wateronging) Construction of w 2(firestock w 5) Construction of w 2(fack func) Construction of w 3(fack func) Construction of w 3(fack func) Construction of w 5(fach) Construction of w 5(fach) Dandu w 8(fack catchment) Shaf Shafey II and BP. I w 5(fach) Rhamo Dietra w 5(fach) Andia w 5(fach) Rhamo Dietra w 5(fach) Andia w 5(fach) Lafey w 5(fach fine) Construction of w 6(fach) Construction of w 6(fach) Construction of w 6(fach) Construction of w 6(fach) Construction of facilities	Bothii Tjara Dibirici wide Dibirici wide CornolAustra J. Bhu k Rhaano Khalafayo Central Shingbir Faruma Malitangari Dabashi Haren Bart Faruma Malitangari Dabashi Haren Bart Faruma Malitangari Dabashi Haren Bart Faruma Marina Contal Central Roman Linder Lidey Ke, Gent Nyadarat Barta Sanaka Sanaka Lidey Ke, Gent Magdarat Barta Sanaka Sanaka Central C	11           12           2           3           4           5           6           7           8           9           10           3           4           5           6           7           3           6           7           6           7           6           7           8           9           10           11           12	COK COK COK COK COK COK COK COK COK COK			
		Project New Project Proposals	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Rehabilitation of water supplies (mean many mapped) Construction of w 3(firesteel w 5) Construction of w 3(farektions) Construction of w 3(farektions) Construction of w 3(farektions) Construction of w 5(farektions) Construction of w 5(fare) Construction of w 5(fare) Construction of w 5(fare) Construction of w 5(fare) Construction of w 5(fare) Daming of a borchoic Construction of w 5(fare) Daming of Borchoics Daming w 6(fore) catchment() Shaf Shafey W 5(fare) Nature Dimet w 5(fare) Arabia w 6 (rank fare) Construction of w 5(fare) Construction of w 5(fare) Staf Shafey W 5(fare) Construction of w 5(fare) Construction of w 5(fare) Construction of w 5(fare) Staff Housing and Elecutions	Bothai Spara Dublick wide Diblick wide ConnolAusten 3 Elwalt Rhaanu Khalafyo Central Shinghir Fatuga Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Dahalifyo Malitanoari Malitanoari Dahalifyo Kanata Central Rhama Dimbu Central Rhama Dimbu Central Romana Romana Central Romana Romana Romana Central Romana Central Romana Central Romana Central Romana Central Romana Central Romana	11           12           1           12           2           3           4           5           6           7           8           9           10           1           2           3           4           5           6           9           10           11           12           11           12           13	COK			
		Project New Project Proposals On Going Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Exhabilization of water supplice (mdon wateronging) Construction of water supplice (mdon wateronging) Construction of wateronging) Construction of wateronging Construction of wateronging Dandu wateronging Dandu wateronging Dandu wateronging Shaf-Shafey II and BP. I wateronging Roman Dimers wateronging Roman Dimers without Construction of wateronging Construction of divisional water office Construction of divisional water office	Bothai Tjara Dubiric wide Di biric wide Cornel Marken J. Bhu k Rhaanu Khalafiyo Central Shingbir Faruga Malitanari Dabashi Herci bara Faruga Malitanari Dabashi Herci bara Faruga Malitanari Dabashi Herci bara Faruga Marka Washen Central Faruga Marka Washen Central Faruga Marka Washen Central Central Faruga Marka Washen Central Central Faruga Central	11           12           2           3           4           5           6           7           8           9           11           2           3           6           7           8           9           11           12           13           1           13           2	COK COK COK COK COK COK COK COK COK COK			
		Project New Project Propessis On Going Projects New project	Bodhaj w 5 Alance Arba w 5 Alance Arba w 5 Rehabilitation of water supplice (mdon waterpaging) Construction of w 3(fire stock w 5) Construction of w 3(fire stock w 5) Construction of w 3(fire kluwsp) Construction of w 3(fire kluwsp) Construction of w 5(fire) Construction of w 5(fire) Diffing of Bracholes Construction of w 5(fire) Bhal Shafey II and BP. I w 5(failow with) Shafe Shafey II and BP. I w 5(failow with) Shafey fire kine) Construction of w 5(fire) Arabia w 3(fire) Construction of w 5(fire) Construction of w 5(fire) Construction of divisional water offer Construction of divisional water offer Staff Housing and Elecultication Elect borchole(s) Chaning and equipping of Bracholes Construction of divisional water offer Construction of divisional water Construction of divisional	Bothai Spara Dubrict wide Dibrict wide Carnel/Lusters 1 Elberk Rhann Khalafyo Central Shinghir Fatuga Malitargeri Dahaibi Hierefi Inore Familyon Andrew Dahaibi Hierefi Inore Familyon Andrew Dahaibi Hierefi Inore Familyon Andrew Central Rhann Cimpu Familyon Cimpu Fino Central Rhann Cimpu Fino Central Rhann Cimpu Fino Central Barnahar Song Central Barnahar Song Central Barn	11           12           2           3           -	COK           COK/Denor           COK/Denor/NGO           COK/Denor/NGO           COK/Denor/NGO           COK/Denor           COK           COK           COK           COK           COK			
		Project New Project Proposals On Going Project	Bedhaj w 5 Alance Arba w 5 Alance Arba w 5 Alance Arba w 5 Construction of w 340 supplics (mdon waterproping) Construction of w 340 supplics (mdon waterproping) Construction of w 34 (mdd func) Construction of w 34 (mdd func) Construction of w 34 (mdd func) Construction of w 54 (mdd func) Dundu w 54 (mdd func) Shafes Shafey W 54 (mdd func) Shafes Shafey W 54 (mdd func) Construction of distional water supply) Shafes Shafey W 54 (mdd func) Construction of distional water offices Construction of distional water offices Shafes Autor of distional water offices Shafes Autor (mdd func) Construction of distional water offices Shafes Autor of Autor Autor of	Bothi Tjara Dibiric wide Dibiric wide Cornellowin J Elva k Rhann Khalifyo Central Shimbir Fangus Malkanari Dabaini Hireri Nerri templakatalan Dabaini Hireri Nerri templakatalan Dabaini Nerrei templakatalan Central	11           12           1           12           3           4           5           6           7           8           9           10           1           2           3           4           5           6           9           10           11           12           13           13           2	COK           COK			
		Project New Project Propessis On Going Projects New project	Bodhaj w 5 Alance Arba w 5 Alance Arba w 5 Rehabilitation of water supplice (mdon waterpaging) Construction of w 3(fire stock w 5) Construction of w 3(fire stock w 5) Construction of w 3(fire kluwsp) Construction of w 3(fire kluwsp) Construction of w 5(fire) Construction of w 5(fire) Diffing of Bracholes Construction of w 5(fire) Bhal Shafey II and BP. I w 5(failow with) Shafe Shafey II and BP. I w 5(failow with) Shafey fire kine) Construction of w 5(fire) Arabia w 3(fire) Construction of w 5(fire) Construction of w 5(fire) Construction of divisional water offer Construction of divisional water offer Staff Housing and Elecultication Elect borchole(s) Chaning and equipping of Bracholes Construction of divisional water offer Construction of divisional water Construction of divisional	Bothai Spara Dubrict wide Dibrict wide Carnel/Lusters 1 Elberk Rhann Khalafyo Central Shinghir Fatuga Malitargeri Dahaibi Hierefi Inore Familyon Andrew Dahaibi Hierefi Inore Familyon Andrew Dahaibi Hierefi Inore Familyon Andrew Central Rhann Cimpu Familyon Cimpu Fino Central Rhann Cimpu Fino Central Rhann Cimpu Fino Central Barnahar Song Central Barnahar Song Central Barn	11           12           2           3           -	COK           COK/Denor           COK/Denor/NGO           COK/Denor/NGO           COK/Denor/NGO           COK/Denor           COK           COK           COK           COK           COK			

The Aftercare Study on the National Water Master Plan

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#### Tables

## Table - 3.2.1 (6/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997- 2001

istrict	Agency	On-Going or New Project	βιομεί Ναφε	Division	Priority Ranking	Funding Source		Related P Sewerage	
W'SQL	MOLA	New project	Township Sanitation Conservancy Project	Central	- 1.	COKWWC COKWWC			
(o'inc		Proposals	Wajir Town Sewerage System(design'construction) Market construction	Central	2	WWC			i
1			Street Lighdag	Central	4	WWC	1		
			Estate development	Central	5	WWC			
			Construction of Town Social Hall	Central	6	WWC	<u>-</u>		<b> </b>
Gsii	MAR	Oa Going	Keroka W P (line tank pumping set)	N25303	1	GOK GOK			<u> </u>
		Projects	Gesusu Cateri W. P. (electrification of inteke)	Masaba Kenyonya		GOK			
			Niareni W.P (storage tank pipes) Rickindo W.P (weatment works)	Keumbu	1	GOK	•	i	
			Bitongo W.P (extension of times storage part	Keyabu	5	KFTHC	•	Í	
			Rigens W.P(water supply)	Njacheki	6	GOK			ļ
			Eugo W P(distribution lines)	Njarambe	7	GOK Community		I	<b>}</b> —
			Gionnesi Phane II (distribution) Kioge W.P (electrification)	Njamache Mosochó	<u>8</u> 9	<u>COKCommunity</u> COKCommunity	1-1-	+	+
1			Calera W P (rehabilitation of w/s)	Ogembo	10	GOK Community	i i		1
1			Sengers WS (rehabilitation of x's)	Ogembo	11	GOK Community			
		New project	Koli w/s Project Ph I & Il(increase capacity)	Maniopatin	1	COK			ļ
		Proposals	Tabata-Itabago wis	Nyamarambe		EEC	<u> </u>	ļ	1
ļ			Ocembo w p(full treatment supply)	Ogenbo		GOK			+
1			Njacheki w je (clean water to market center 'schools)	NyathekiNyemathe Keumbu	3	GOK Community GOK		·	
			Matunya w p(full beatment sopply) Monianka w/s (gravitational system)	Namarembe	6	GOK		<u> </u>	1—
		1	Igonga Matongo (clean water)	Sancka		COK Community	•		1
ŀ	MOLA	On Coing	Market Planning	District wide		County Council	1		
ł	(Case Consty	Projecto	Refuse collection	District-wide	2	County Council			<b>-</b>
	Council)	1	Buiding cheap shades	District-wide	3		· <b>¦</b>	•	+
		1	Rural electrification	Distant		County Council	+	+	·
		1	Isolated Piop and hawkers Improvement of feeder roads	District-wide District #ide	6	County Council	1	1	+
		1	Provision of land for the construction of shade	District wide	2	County Council	1	1	1
			Halth	District wide	8	County Council	1		1
		1	Fending of Public Land	District wide	9	County Council		4	
			Construction of Slanghter House	Öçembo	10	County Council	<del> </del>	1	+
		New Project	Upgrade of Suneka market	Suacka	1	MOLG		Í	1
	MOLA ( (Kisii <u>F</u> Mesicipatity)	Proposals On-Going	Kasii Sewerage Programme	Municipality	1	GOK ADB	1	•	1
		Projects	Daraja Mbili Open Air Markus	Municipality	2	Dutch Gov. COK		1	1
		New Project	Kenya Urban Transport Infrastructure project	Municipality	. 1	OOKAWorld Bank	·		. <b> </b>
		Proposals	W.S Improvement	Municipality	2	Menicipal Council			· <b>†</b>
		1	Refuse collection improvement	Menicipathy		GOK	<u> </u>		
			Kisii B. pass Project	Municipality Municipality		GOK/World Bunk Municipal Council			
			Prevision of On-Site infrastructure Construction of fire station	Municipality	6	GOK/MOLG			+
		i	Improvement of station	Municipality	7	COK	1		-
			Construction of New Hall	Municipality	1 5	COK			
1		1	Development of Nyakongo sile(drainage)	Municipality	9	Manicipal Council		•	1
ມີຮັບສາຍ	MAR	On Going	Nyando Flood Control activities	Nyando	. L	СОК	<u> </u>	<u> </u>	
	ł	Projecto	Kisumu Reral Water Supply phase I	Maseno	2	GUK	<u> </u>		
	i		Nyzkako Women Group Borchole	Miwani Muhoroni	4	OOK GOK	+		+-
i			Tame W/S (tchabilitation/teplacement) Vitendo W/P(survey and design)	Videndo	5	COK COK	-		1
		1	Michdwa Kanyatwar WS	Matendwa	6	СОК	•		
	l.		Kathe W.P (ant/distribution)		7	СОК	•		
			Rural Domestic Water Supply and Sanitation Project	Nyakach	8	GOK/Netherlands			_
			Nyakach W/S	Nyalach	<u> </u>	<u>COK</u>			
	]		Maseno Kombewa W/S	Maseno	10	GOK			-
			Nyando Kadibo Water and sanitation programme	Nyando Kadibo Miwani Maseno	11	OCK/Netherlands COK/UNCEF		+	+
		New Project Proposals	Child Survival and Development Programme (CSD) Muhoroni w's (ank)	Muhoroni	2	GOK		1	-
		Proposals	North East Kano w/p Koligori w/s(intake)	Mew ani	3	COK	·		1
	1		Songher Muhoroni w.S	Mehoroni	4	COK/Donor	. •	1	
	L		Kajulu Gravity Line (F/S)	Winam	5	<u> </u>	.↓.●	<u> </u>	
	Kosma	On Going	Kenya Urban Transport project	Winam		GOK World Bank			-+
	Municipality	Projects	Lamumba Health Center	- ໜີກມານ ທີ່ມີການກາ	2	Municipality Municipality		+	
	I		Gol Nyabondo Dispensary Nyabongo Dispensary	พรกลาว พรกลาว	4	Monicipality	-1	1	+
	1		Obunga Dispensary	Ruam	5	Manicipality	1	_	
	1	•	Kisama Manicipal Centery	Winaca	6	Municipality			-
	1	New project	W.S.Kisuma Towa	Winam	1	Municipality			
		Proposals	Sewerage System Kisuma Towa	Winam	2	Municipality		•	-1-
		1	New Mechanical / Electrical Workshop	Winam		Municipality		+	-   -
			Construction of horicultural market	Ninam Ninam	4	Manicipality Municipality			+
	i i		Bas Park Project Kisumu Town Rehabilitation of Municipal Market	Winam	6	Municipality	-1		-1-
	1	1	Construction of Parking depot	Winam	7	Municipality			Т
	1	1	Construction of New fire station	Winaca .	8	Municipality			
	1	1	Paris des clopment	W.c.a.10	9	Municipatity		<u> </u>	
	1	1	Installation of parking excless	นี้กละก	10	Municipatity	- <b> </b>		
	1	1	Off-street parking facility	Winam	<u> </u>	Municipality			
	1		Town Hall extension	Winam Winam	12	Municipality Municipality			-+
	1		Modern Telephone Exchange	Winam Winam	14	Municipality	-t	-+	+
	1		Bur Ogwał dispensary	- Binam	15	Municipality		-1	-1-
			Chiga Dispensary	Winam	16	Manicipality			1
			Ojolia Dispensary	Winam	17	Municipality			
	1	1	Tiengere Dispensary	Winam	18	ManicipaSty			1
				Winam	19	Municipality	1		- T.
		-	Wathorego Dispensary Airport Dispensary	Kisoms Town	20	Municipality			— I-

The Aftercare Study on the National Water Master Plan

## Table - 3.2.1 (7/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997 - 2001

District	Agency	On Going or New Project	Project Name	Division	Priority Ranking	Funding Source		( Related P Sewerage	
Kisamu	Kinumo	New project	Sugar Belt Feeder Roads	Marani Muhoroni		County Council		╞╌┈╺╶┥	<u>↓</u>
(conta)	County	Proposals	Construction of market shed	ten, Award Pare, Alache Kar	2	County Council			<u> </u>
- 1	Council		Construction of Staughter House		3	County Council	<b>├</b> ────	ŧ	<b>—</b> —
1			Estat fishment of use planting nurseries	No dia 1, Marata Jakasa ng Winang	4	County Council			
- 1			Ausistance to Women Groups	District wide	5	County Council	L	L	┝
-			Speel Ughing		6	Donor			<u> </u>
	<u> </u>	<u> </u>	Construction of market shed	A He mande Knot, Par Darie, A.	7	County Council			┣
h amira	MAR	On Coing	Rural Domestic Water Sopply and Sanitation Project	District wide	1	OOK Netherlands	•	ļi	<b>I</b>
		Projecto	Rehabilitation of Mamira W.S	Namira	2	GOK(LARND)	•		ł—
		-	Rehabilitation of Tombe W.S	Monga		COK		ļ	<u> </u>
			Consequence of Nyakome W/S	Manga	. 4	OOK Netherlands	•	L	ļ
		New project	Raral Domestic W/S Programme III	Districtwide	<u> </u>	COX	•	L	
		Freesad	Keera Water Office	Nyamira	2	GOK			ļ
		1	Eronge w.b	Boraba	3	GOK	•		L
- 1		1	Njambaria	Gesima		GOK	•		
			Tioga w's	Nyamira	5	OOK	•		1
	MOLA	On Going	Opening of Access Roads	Nyamina	1	Las & Automate Service Orage			
ł	Cipania Torra	Projecto	Fending of Morkets	Nyamaiya	2	Groups Pool Brigging Tax & fulls			
- 1	Counci)	New project	Market des elopment	Nyamira	1	Service Charge			<b>Г</b>
		Proposals	Refuse collection facilities	Nyamira	2	GOK		1	
ł	Nyamira	New project	Provision of sanitation facilities	District wide	1	Market many sector charge		T	1
- 1	County	Proposals	Coffee factories feeder soads	District wide	1 2	Coffee Cess		1	1
	Coancil	11000325	Construction of a hold	Manga	1	KTDC/ICDC		1	1
	Coancia		Construction of sheds, stalls and sanitation	Namira Kebirigo	t i	COK	1		+
ł			Sow crage and drainage system		s s	OOK			1
		0.0		Asego	l í	GOK-NORAD	•	<u>†</u> <b>-</b>	+
on Bay	MAR	On Going	Minor Uban Rural WS	Nobiwa	2	GOK	1.	+	
1	l i	Projects	Oberg W.S. (rehabilitation)		$\frac{1}{3}$	GOK	+	+	+
	i i	1	Njandiwa W.S fintake line tank)		1 ···			+	<b>+</b>
	i i	1	Kochia W/S (treatment works)	Rangure		GOK		ł	+
	i i	- F	Ndhiwa Rapedhi W S	Ndhuwa	<u> </u>	<u> </u>	<b>↓</b> • • •	+	+
	i	1 I	Got Kejowi W S(distribusion lant)	Nyazongi	6	GOK	• •	<b>+</b>	
	1	1	Water Pan	Nywongi	- ?	GOK	+ ₽	+	+
	í i	1	Water quality and pollution control activities	District wide	<u> </u>	COK	<b></b>	- <b></b>	
	í i		Farmer group and community support	Nyarongi	<u> </u>	IFAD	•	<b></b>	∔
	í i	New Project	New Rural w/p (sum ey and design)		1	GOK			1
	í i	Proposals	Asumbi Rangwe W'P(FS)	Rangwe	1 2	GOK	• • • • • • • • • • • • • • • • • • •	<u> </u>	
	i i		Rangue w p (design and construction)	Rangwe	3	GOK	•	<u> </u>	
			Construction of Datas	Nyarongi	A	GOK	•		
			Construction and Protection of Springs	-n arongs	5	GOK	•	<u> </u>	
			Geosurvey for Underground Water	Ndhiwa	6	COK/CARE	•		
		New Project	Ground Water Development	Districtwide	1 2	GOK4FAD7ICA	•		-
	MOLA	New Project	Homabay Sewarage regain	Asego	1	COK	T		T
	1004	Proposals	He mat ay Bus Park		2	COK		1	+-
		rioposas	Hemat ay Sinalogaling Reads		3	GOK/World Bank	1	1	1
Kacia	MAR	On Geing	Kehaocha W.S(drahing of data une prop.prog. mat)	Kehancha	1	COX	•	1	1
AD1-2			Isabania W.S (pump)	Kehancha Isabani		GOK	Í Ö	1	+
	ł	Proposals	Raral water point(spring shallow welkborchole)	District-wide	1 ;	COK/Donot KWAHD	1		
	1			Loga Al- Wilde	1 1	COKAFADLEDA	<u>+</u>		+
			Construction of district water office			COK/Docor		+	+
			Ný arocha piro Soc. School W.P	Kegonga Mabera		GOK Denor		<u>+</u>	+
	1	New Project	Masaba Halft Center Washallow well boreholes)	Nimaru		COK Denor		+	+
ì	1	froposals	Nomaro w 5(intake tank)		2		-	+	
Ì	1		Kegongs w s(intake tank)	Kegonga	- 3	COX Donor		+	
			Mabers w S(intake tank)	Mabera		COX Denor	<u> </u>	+	
	L		Ikerege w.5(intake/ank)	Kchancha	<u>  .</u>	COK/Doper	<u></u>		+
	MOLA	New Project	Water network(distribution)	Kehancha	<u> </u>	GOK/Donor/Council	╇	┥	+
	1	Proposals	Sew crage network sew crage beatment work	Kehancha	2	GOK Dopor Cossol		<u> </u>	4
	1		Construction of social ball hotels	Kehancha		Council Denot		- <b>i</b>	_
	1		Potenfial revenue study	Kebancha	<u> </u>	Council			_
	1		Valuation roll	District wide	5	OCK/Council			
	ł	1	Fencing of aperion rings for animal suction	Gwittanbe	6	Çounci	1		<u>Т</u>
	i	1	Planning of wasdand within the council	Kehancha	?	COK/Cossol	-		
	1	1	Fence and clear dupping site for the solid waste	Kehancha	8	Council			1
	1	1	Construction of bas park	Kehancha	9	Conneil			1
	i	1	Rehabilitation of roads	Kebaocha	10	GOK Council			T
	1	1	Construction of Strughter House	Nyamharaga	11	Cooncil			T
1	4	1	Construction of market	Kehancha	12	Council/GOK/Donor			1
arioga	MAR	On-Geing	Sacho Remo W Р	Sacho	1	GOK	•		T
B-9		Projecto	Kabarlocjo W Plank)	Barnitaire-mattern tage		COK	1.	1	+
1	1	l'ores	Kaptong W.P(initic/pipeline)	Sacho	3	COK	Ť	1	1
		I	Construction of W.S. Divestock Programmers	East Basingo	1	00%		-1	+
	1	1		District-wide		OOK		-1	+
	l	1	Rehabilitation of W.S	District-wide		GOK			+
	t	1	Purchase of Plant & Equipment		7	60K			+-
	1	1	Cheptambus W.P (boreholes)	Tenges				+	-+
	1		Kampi Ya Samali W.P	Marigat		00K			+
	1	1	Chelaba W. P(booster station)	Marigat	2	COK			
	ł	1	Kigharda W.P (intake)	Kabareet	10	COK(SDD)	-		-+-
	1	1	Ngetmoi W Printike rehabilitation)	Kabarnet	11	COK	-		<u> </u>
	1		Sandai Kaptakui W ? (distribution)	Marigat	12	COR(SDD)	•		
	1		Koitoi W.P	Barwessa	13				
	ł		Seremain W.P (Surdation)	Kabarnet	- 14	COK(SPD)			
	1	1	Pertwai W P(distribution line)	Kabarnet	15	GOK	•		
	1	1	Maci W.P(distabution)	Marigat	16	COK	•		-1
	1	1	Kaptinisort W.P	Kabartonjo	17	OOK(SDD)	Ť	1	+
	1				15		-	+	+
			Construction of W/S	East Baringo		COK(SDD)		-+	-+-
	1	1	Artor Sairoo W P		- 19	<u> </u>			+-
	1		Livestock Water Project(investigation/planning)	Marigai	- 20	COK	•		
			Criminal instruction of the state						1
			Kabasis W P	Sacho	21	COK	•		<u> </u>
			Kabasis W P	Sacho Sacho	21	LTF CEF WAR VARMAGE CONCILIANT		<u>-</u>	<u>i</u>
			Kabasis W P Ochii Kaptekwa W P	5xtto	22	LW OF Was Very CONCERNED			1
			Kabasis W P Ochii Kaptele wa W P Tatai W P	Sacho Kabarnei	22	LT SE WAR VAR CONTACT	•		
			Kobacis W P Ochii Kaptek wa W P Tatai W P Otergeroo Salat ari W P	Sacho Kabarnei Marigat	22 23 24	COK COK	•		
			Kabasis W P Ochii Kaptele wa W P Tatai W P	Sacho Kabarnei	22	LT SE WAR VAR CONTACT	•		

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Tables

# Table - 3.2.1 (8/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997 - 2001

Nistrica	Agency	On Going or New Project	Project Name	Division	Priority Ranking	Punding Source		u Related P Sewerage	
eringo	MAR	On-Going	Tangulbei W.P	Tangathei	28	Community/COK	<u> </u>	<b>!</b>	
eni d'a	(confd)		Barwessa Veptos W P	Barwessa		Concercit, UNICED, GOK	•	ŧ	
1			Emtwen W.P	Mongat	30	GOK(SDD) COK(SDD)			t
			Secure WP	Kabartonjo Burwessa	31 32	COK		+	i-—
			Barthabwa Dom W P	Buressa	33	Community UNICEF	i i		i
			Nelkol Korimor W.P	Nerigat	34	GOK	•		1
1		i	Kejach W P	Крузгатал	35	Wald Vora Commany	•		1
			Negareo W.P	Tenges	36	COKJAMARA	۲		
			Keyonia W.P	Kabarnet	37	Community: GOK(SDD)		<u>.                                    </u>	L_
			Mechangoi W.P	Mochongoi	35	COK(SDD)	•		ļ
ł			Szgal W.P	Sacho	39	COK(SDD)			┞
			Koriema Kimatet W/P	Marigat	40	GOK	•		÷
Í			Kimao dam W.P	Marigat		KNDA		ł	+
			Moswa W.P	Tenges	42 43	Community/COK(SDD) Community/UNICEF	1		+
			Bekinei W.P	Tenges Kabaroct	41	UNICEF World Vision		1	+-
			Kipsoli W/P	Barwessa		UNICER/World Vision	t i		1
			Chesongo W.P. Water resource Assessment and planning Project	District-wide	46	Netherlands COK	•		1
		1	Construction of water pans	Tangulbei	47	KFIHC	•		
			Dritting of borcholes	District wide	43	Fryphan Gov. GOK		L	
			Dritting of boreboles	Tangulbei	49	Bar Dis Contraction and			
		[	Investigation planning design	Baringo	50	GOK	•	<u> </u>	<u> </u>
		l	Kabaract sew erage	Kabaroet	51	GOK		•	+
		New project	Beregei Damw's	Kabartonjo	2	GOK GOS/NGOS	• •	+	÷
		Proposals	Training of Communities 5 Pilot Projects	Districtwide	3	COKAAMABA NOOS	•	+	1-
5		l	Rain Water Harvesting Koot Catchment	Kipsaraman	4	COK	l i	1	1_
1			Lerak w'p	Kabatonja Neissag	5	COK	•		
1		1	Pekerra Multi - Purpose Dam and Kipng erom Dam	Drings por C. Amate	6	GOK		-l	. <b> </b>
			Кряла Dam #/p	Tenges Sacho	7	QOK.	•		-
ł			Emmows	Kabartonjo	8	COK Commanity	+₽	- <u> </u>	4-
		l	Kiling ot W.P	Kabartonjo	<u> </u>	GOK GOK	┼╌╬╌	+	
		ł	L. Baringo-Njeraps w p		10 11	GOK		•	+
			Marigat Sewerage	Marigat Marigat	12	COKINWOPC	•	<u>+</u> -	
			Ol avabel w/p	Marigat	13	GOK	+	•	
			Kampi is Samaki Sewerage Kabartunjo Sewerage	Kabarionjo	1 11	GOK		•	
- 1			Tenges Sewerage	Tenges	15	COK		<b>1</b>	
			Arid Lands Resource Management Project		16	OOK World Back		1	
h	MOLA	New Project	Construction of sevenue office	Kabartonjo	1	COK	<b>_</b>	_	
	(Basingo	Proposals	Construction of modern market	Tenges	2	GOK	- <b> </b>	-	
	County Count)		Design Flan for Sewerage	Maricat	3.	GOK		_ <b>_</b>	
- 1			Construction of modern market	Kaba lonju		<u>сок</u> сок			-+-
1		1	Construction of Staughter House	Marigat District wide	6	OOK	+		+
			Construction of Staughter states	Marigat	7	COK	1		-1-
			Design Plan for Sewerage Construction of stock sales yards	Mochongoi	1 5	GOK	1		
	MOLA	New Project	Sewerage System	Kabaraci Towa	1	Donors			
- 1	(Monicipal	Proposals	Township Road	Kabarnet Town	2	COK World Bank			
	Council of	1100000	Construction of rental houses	Kabarnet Towa	3	Hand String Corporation		<u> </u>	_
	Kabarnet)	1	Bus park	Kabaran Town	4	World Bank			
l	•	1	Street Lights	Kabarnet Town	5	Riodd Bank			+
[			Fire station	Kabarnet Towa	<u> </u>	COK COK	•		
ajiado	MWR	Qu-Going	Eremit W.P	Song	1	GOK			+
		Projecto	Bissel Maparash W/P	Namaoga Ngong	3	GOK		-	+
[		1	Kipeto Kisaja W P	Neong	4	COK	•		
		1	E#250-Kisaja W P Mosira W P	Ngang	5	GOK			T
		1	Rehabilitation of W.P	District wide	6	COK			Τ.
		1	Orinie W.P	Central	2	COX			
		1	Livestock Water Project	Outict-wide	8	COK	- <b>!</b>		
		1	Community self help water harvesting project	Arid areas	<u> </u>	ASAL/Commonity	╇	-+	-1-
			Water users association support project	Divid-wide	10	Billion, ASAL Consensativ	+		- <del> </del>
		New Project	litareto # p	Central	+	GOK Community			-+-
1		Propesals	Isara # p	Loitotitot	2	GOKCommunity		<u> </u>	+-
			Eachiel Mile w/p	Ngong	╡╶╁╴╁╴	GOK Community	+		+
			Kiserian Konde wip	Ngoag Masharu		GOK Commonity	•	1	T
		1	Namanya w p	Namanga	6	COK Compusity	•		
	Ewaso Nyiro	New Project	Ewaso Nyiro South Multi-purpose project	District wide	1	COK			- Í
	Dev. Auto.	Proposals	Catchment Conservation and schabilitation	District wide	2	GOK			-L
			Livestock development	District wide	3	GOK		.——	-1-
1	L		Ewaso Nyiro South Development	District wide		GOK Dosor	+		-+-
aškipia	MWR	On Going	Dam Construction	District wide	<u> </u>	COK ASAL			
		Projects	Livestock Development Program	District wide		COKASAL			-+-
		1	Rehabilitation of W/S	District wide		COKASAL			-+-
		1	Wy uminine W/P	District wide		COS ASALS of belo COK ASAL/Self-belo			
		1	Ny aharuru Settlement Scheme WP	Nyaharuru Central		COK ASAL/Self-help			-+
		1	Nakuma W.P (pump tank fine)	Nyabaruru	- 6-	CONASAL Seit rap		1	+
	1	1	Kwathia W.P. (pump/ank-fine) Lariaka Karaba W.P. (distribution fine)	Ngaparuru Ngaparuru	1 1	COK	Ť	_	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Districtwide	1	GOKASAL			T
	ł	New project Proposals	Livestock Development Programme	Diskictwide	2	COK ASAL	Ī		
	1	rioposais	Rehabilitation of Water Supplies Programme	Districtwide	3	COK/ASAL	•		_
	I		Kinamba w'p	Nelarua	4	GOKSH	•		_[
	1		Lamaria w p	Ngarua	5	GOKSH			
	1		Remarkh */p	Romoruน	6	GOK ASAL AND ON CC	•		
			Matara w.'s	Ramorati	7	COKSH	1 .	•	

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## Table - 3.2.1 (9/12)Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997- 2001

Xstict	Agency	On Coing or New Project	Project Name	Division	Priority Ranking	Funding Source		-Related P Severage	
Nandi	MWR	On Going	Nandi Hills W.S (dam water beatment)	Nandi Hilla	1	GOK	. •		
		Picject	Leimetwo W.S (gravity)	Mos. p	_ 2	<u>GOK</u>	•		<b> </b>
			Kemeloi-Kobajoi W.S Metaitei W.P (distribution line)	Aldai Tinderat	3 1	GOK/Donor Bergium Gov,			÷
			Cheptongony Kipleillo W.S (pumphouse tank)	Kapabet		EEC			
			Kaptumo Mosombor W P	Kaptumo	6	COX	Ť	<u> </u>	<u> </u>
			Lessos WS (gravity)	Kitibweni	7	GOK	•		<u> </u>
		1	Lessos W'S AChepül W'S	Kilibwoni Musop	8	GOK	•		ļ
		1	Chepterwai W S (dara pow er supply)	Mesop	9	COK	•		
1			Sarora W.S	Missop	10	GOK/Donor EEC/GOK	- <u>-</u> -	<u> </u>	┢┈──
		New project Proposals	Kabiyetwip Oremase wip	Kabiye <u>s</u> Aldai	1 3	COKSH			┟──
		repesas	Kamarich W.P	Aldzi	4	COK/Depor			<u> </u>
			Keftarat w'p	Nandi Hills	5	GOK SH Denor	i - i		
			Lessos Dam	Kilimbwoni	6	COK	•		
			Kimuto wa	Tinderel	7	COKINCO	•	<u> </u>	L
1			Mateget wip	Kosirai		COKSH			
		1	Koyo Kapsaos w p	Aldai Districtwide	9 10	GOK/NOO GOK			╂—
1			Investigation Planning and Dealen (all W.P) Roof Catchment Programme	Disaictuide	10	COK/Donor			╈
1			Spring Protection Programme	Districturide	12	OCK/Dopor		+	†
			Office Accommodation	District HQs	D D	COK/Donor			<u> </u>
			Hi dro-Met Station	All	14	COK/Donor	•		
			Transport (vehicle)	Districtwide	US	GOK Donor	•		<b> </b>
			Laboratory (water)	District HQs	16	COX Donor	<b>_</b>		<u> </u>
	MOLA	On Going	Kapsabet Town Sewerage Phase II	Kapsabei Mun.	<u>_</u>	CORVICA			+
		Projecto	Kapsabet National Housing Project Kapsabet W.S	Kapsabet Kapsabei	2	COK/NHC/Denor COX/Denor	•	<del> </del>	+
1		New project Proposals	Uban Transport Project	Kapsabet	2	GOK/Denor	t	<b>†</b> −−−−	1-
			Kapsabet Staughter House	Kapsabet	3	OOK Dosor	1	1	1
			Grading of access roads	District wide	4	Local Anth General Fand			<b>—</b>
			Planning of survey of Local Market centers		5	GOK/Local Auth.Fund	1	1	1
			Construction of new markets	Distinct-wide	6	Load Arik Granni Fast	<u>                                     </u>	<b> </b>	<b>i</b>
			Construction of residential houses	District HQs	7	Present Versing Corpu aire	<u> </u>		+
		1	Construction of sheds at the bus stations	District #ide	8	Local Au's General Fond Scivics Charge		ł	
			Grading of roads		9		f		1-
1			patting up batchery	Kapszbet	10	Donor Private Investor	1		
			Charcoal Briquettes Flant	Kapatert Kilibwoai	12	Donor Private Investor			1
			Wood wood products manufacture project	Eg : Ant Name 18, Normal	13	Donor Private Investor	ļ		+
			Jaggeries Establishment	Tiaderet	14	Private Investor		+	+
`rans	MAR	On-Going	Fruit Processing Plant Keninini W.P	Saboti	15	Local Investors GOK	•	+	+
ians izcia		Projects	Kimoado W.P		2	GOK Self-help	1 3		+
		i i ciacio	Sigtunga W P	Cherangani	3	COK Self-help		1	+
			Cherangani Kachibora W P	Cherangani	4	GOK-Self-help	•	·	+
			Saboh W P	Saboli	5	COK		1	T
		New Project	Greaks Cherangani w p	Central	1	GOK	<b>↓</b> •	·	1
		Proposals	Euigain * p	Cherangani	2	GOKSH	1 2		+
	MOLA	On Going	Gruzzba w/p Physical Development Plans	Sabož	<u>                                     </u>	GOK/SH Nzela county Council	•		
	3834.54	Projects	Rehabilitation of Reads	District wide	+ <u>1</u>	Nois county Council	+	+	+
	1	New Project	Rehabilitation and reconstruction of reads	Kitale Muni.	1	World Bank	<u> </u>	<u> </u>	
		Proposals	Gravity aided W 5	Kitale Muni.	2	GOK	•		
		1	Bus put	Kirale Muni.	3	World Bank		1	
			Construction of fourist boics	Krale Moni.		KIDC .	<u> </u>		
beia -			Construction of a housing estate	Kitale Mani.	<u></u>	NHC			+
แรกน ถึงวิล	MAR	Oa-Geing Projects	Kaitoror W.P Sambut W.P	Modes Turbo	1 2	<u>оок</u> сок	+ +		
waa		riok(2	Sagoi W.P	Sugoi	1 3	<u>сок</u>	+		+
		1	Kipsançui W.P	Soi	1 1	OOK			-
		1	WS Rahabilitation	Distict wide	Ś	GOK	Ť		1
			Burnt forest W.S	Ainabkoi	6	ÓOK	•		T
			Alinabit of Complex Self-help W.P	Aicabkai	,	COK	•	1	+
			Paharini W P	Ainabkoi		<u>00K</u>	•		
			Kapsühoi self-belp W/P Tarakwa self-hežp W/P	·	11 - 12 -	GOK GOK	┼╋		+
		I	i aratwa self-heip W.F Kipkabus W.P	<u> </u>	112	GOK		+	+
		1	Yanumbi phase II se'I help W P	t	14	GOK	1 -	1	1
		New Project	Kennes W/p	Kesses	Î	COKDusor	i •		1
		Proposals	Cheplaska #'s	Kesses	2	GOK	•		1
			Ziwa Sirikwa Machine w.p	Mobea		GOX	•	- <b> </b>	
		1	Naireir KapaJalach w p Rehabilitation of Dams	Kasses	+ +	GOK	• •		+
	1	1	Renabilitation of Dams Investigation, Planning and Design	Districtwide Districtwide	5	GOK	•	+	+
iziye -	MAR	On-Geing	N IN Milany W/S	Tambach	$\frac{1}{1}$	ASALS of help Commany	1 -	1	+-
•		Projects	Cheptei tei-Cheber WS	Tambach	2	ASAL/Self-help	1	1	-1-
			Ephe Emis W.S	Soy	3	COK	l ě.	1	T
		1	Sergoit W.S Tacks	Kamariny	4	GOK	•		
			Metho W P	Chepkonoel	5	COK	•		
			Lekwa W.S	Tambach	6	COK	+ •		4
			Emannoa W.P	Tambach	- 7	ASAL/Self belo	+ +	+	+
	1	New Project	Kaptoi W.S	Kamariny Kamariny	- E	COK COKSH	┼╌╬╴		
	1	Proposals	Kamefit Kamesong W.P	Chepkorio	2	COKSH		-	
		1.1.20.00	Chemen Ramesong w.r	Chepkono		COKSH COKSH			+
			Kamelil w'p	Tambach	1 1	GOKSH	1 🍈	1	+
	1		Kapsergong w'p	Cheptorio	5	GOKSH	Ť	+	+
	1		Kykares	Tambach	6	COKSH	, i	1	T
	l	L L	Cherkania	Cheptorio	7	COKSH	•	1	T
		1	Tool w's	Cheptorio	8	GOK5H	•	1	T
	1								
			Chepsanoo wip Kolmar W.P	Cheptorio Soy	9	GOKSH GOKSH	•		1

The Aftercare Study on the National Water Master Plan

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Tables

## Table - 3.2.1 (10/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997 - 2001

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Keiyo conta)	Agency	On Going or New Project	Project Nome	Division	Priority Ranking	Funding Source		-Related F Seweringe	· · · · ·
രസമ	MWR (cont'd)	New Project	Changach Birsch w's	Cheptorio	12	COKSH			<b> </b>
		Proposats	Katumoš w p	Soy	11	COKSH			┣
		(contid)	Emsoo 🕸 p	Tambach	14	ASALSH	🙎 —		
			Onegitet w p	Tambach	15	COK'ASAL			<b>{</b>
Ļ			Lucogo Dam wip	Kamariny	16	COKSH		-	╉──
- 1	MOLA	On Going	Planning of survey of Local Markets	District wide	1	GOK Plat Owners			ł
	(Kriyo C.C.)	Progets	Rurat Access and Cess Roads	District-wide		Cris and Service charges			╂
		New project	Construction of classroom of Nursery School	Xana da Day kasi Jup Tanàn k		COKService Charge			
		Proposals	Construction of Staughter stab	Orghos, S.s. Consum		COK/Service Charge		╏ . → → → →	<b>∔</b>
Ļ			Minor W.S	Curran S. S. Kenning	3	GOK/Service Charge			
	MOLA	New Project	lien wis (survey design)	Tambach	1	COK: A ALCONER ally	•		1
	(lien Town	Proposals	Markei Stalls	Tambách		<u> </u>			
1	Council)	L	Town Planning	Tambach	3	COK.		<u> </u>	ļ
		J	Sheet Lighting	d⊃e dmeT	4	GOK		í	<u> </u>
araturet	MAR	On Going	Kipsaya Sasiya W.P	Orthiemit	5	ASAL	<u> </u>		1
		Projects	Olot Kotul W.P	Tot	6	World Vision	•		
		-	Cheptongen Chesinger W.P	Chebiermit	2	Africa Housing Fund	•	L	1
		New Project	Kapsowar w'p (FS)	Chebiemit	1	GOK	•	<u> </u>	.I
		Proposals	Molben Dam w/p	Chebicanit	2	GOK	•	I	
		1.	Tutoyo w'p	Tot	3	GOK			1.
			Kamoi-Chesubet w p	Kapcherop	4	COKSH	•		
- í			Mwangaza w'p	Kapcherop	\$	COKSH			1
			Kapkoshokwo Karawiorien Chebit w'g	Chebiemit	6	COK58	•		T
		1	Treden w'p	Kapcherop	7	GOKSH	i i	i –	1
1		ł	Chesongoch w'p	Tet	8	KNDA	Ť	1	1
		I	Chesongoch w p Cheptongei - Chesengei w p	Chebiemit	9	Africe Bousing Food (ARD)	<b>-</b>	1	1
ł	MAR	On Coing	Kigaris Township W.S (rchabilitation)	Gigoris	, , , ,	COK		1	-
Frans	MW K			Laterien	2	COK Community		1	1
Mara		Projects	Loigerian WS	Shartuka	3	GOK		t	+
- 1		1	Nipship W.S (pump tank/distribution)	Lolgorien				†	+-
I		ł	Lolgorian health center Borchole Project		44	AMDA International			
I		1	Ol Shilang W.P	Kitgoris		COX	- <u>•</u> ·		
I		1	Angata Barinkoi W.S (rehabilitation)	Lolgorien	6	GOK		+	
l		1	Nearare W.S (rehabilitation)	Keiyan	?	GOK	╞		
1			Emarti W.S Stehabilitation)	Kirindini	8	GOK			+
			Enosean W.S (rehabilitation)	Keiyan	9	COK	<u> </u>		+
			Ot donyo Rasha W.P	Kitgoris	10	GOK		1	
			Dams and pans (construction)	District wide	<u>n</u>	GOK		<b>_</b>	
			Hydrometeorogical network	District wide	12	GOK			
			Investigation, Planning and Design	District wide	13	GOK/GTZ/ITDP		L	
		New Project	Enosean Rural w/s	Keiyan	1	GOK Community		+	_
		Proposals	Shariuka Roral wis	ที่การ	2	COK			
		1	Kirindoni Rural # s	Kirindoni	3	GOK Community		L	
		1	Ot Donyo Rasha'n p	Kitgoris	4	COK Community			
			Potora Rural W.S	Kitgoris	5	GOK Community			
	MOLA	New project	Semerage System (lagoon)	Kitgoris	1	County Council Donor			
		Proposals	Construction of Abattoir	Kitgoris	2	County Council Denor			
		nopesas	Construction of staff bousing	Kiteoris	3	County Council		T	
			Construction of cattle crushes	Kilgaris	4	County Council	-		
			Office complex	Kilgoris	5	County Council		1	1
		1	Construction of workshop	Lolgorien	5	County Council	-1	1	
			Construction of town market	Gieores	7	County Council			
ungoma	MWR	On-Coing	Bungoma Town W.S (pumping/beatment)	Kanduyi	1 1	AIDE COK	•	1	
- Borris	200 8	Projects	Webuye Towa WS	Webaye	2	ATDBOOK	•		1
ļ		10,000	Nőivisi W/S	Nor isi	3	ATOBICOK	•		
			Makuselwa W.S	Kimiliji	4	APDB GOK		+	-1-
			Chesitati W.S	Sirisia	1 3	ATDBOOK	1.		-1-
				Central	6	ATDE COK	1		
	l	1	Kibcheri Balefi W.S	Tonsaren		ATECOK	+ -	+	-+-
-	1	1	Linic Nizola West W.S	Bumula				+	
	<u> </u>		Mateka W/S		<u>*</u>	ADB/GOK	+	•	-i-
	MOLA	On Coing	Bungoma Sewerage Project	Bungama Towa Bungama Towa	<u> </u>	ADE/COX		+	+-
	(Bungoma)	New Project	Road rehabilitation				+-	1	+
	Mani Conacily	Proposals	Bus Park	Bungoona Towa	2	COK	+		+
	i	1	Traffic Management	Bungoma Town		COK			+
	1	1	Street Lighting	Bungoma Town	+	GOK	-		-+
		1	Road maintenance equipment	Douriet-wide	<u>s</u>	GOK		-	
			Land acquisition	Kandoyi	6	<u>COK</u>	-+		
	(Bungoma	New Project		Central	1	GOK/Service Charge			
			Construction of Staughter slab	lle	2	GOK/Service Charge			-+-
	Č.Č.)	Proposals		District-wide	3	COK Service Charge	1		
		Proposals	Roads program					1	
		Proposals	Reads program Construction of aperion rings	District-wide	<u>↓</u>	COK Service Charge	<b>_</b>		1
		Proposab New Project	Construction of aprecion rings	District-wide Malakisi	1	COK Cass		<u> </u>	
	c.c.)	New Project	Construction of aprecion rings	District-wide Malakisi Malakisi					
	C.C.) (Metatisi	New Project	Construction of aperion rings Roads program	District-wide Malakisi	1	COK Cass		<u> </u> .	
	C.C.) (Metatisi	New Project	Construction of aprior rings Reads program Construction of mechany Construction of market sheds	District-wide Malakisi Malakisi	- 1-2	OOK/Cess COK/Service Charge			
	C.C.) (Mbiakisi Uster Coust)	New Project Proposals	Construction of aperion rings Reads program Construction of moretuary Construction of market sheds Construction of public toilets	District-wide Matakisi Matakisi Matakisi	2	OOK/Cess GOK/Service Charge GOK/Service Charge			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Going	Construction of perion rings Roads program Construction of more tary Construction of market sheds Construction of public toilets Fracing Toma Hall	District wide Malakisi Malakisi Malakisi Malakisi	1 2 3 4	OOK/Cess GOK/Service Charge GOK/Service Charge GOK/Service Charge GOK/Service Charge			
	C.C.) (Mbiakisi Uster Coust)	New Project Proposals On-Golag Projects	Construction of perion rings Reads program Construction of market sheds Construction of public trilets Fencing Town that Renovation of Starghter house	District-wide Matakisi Matakisi Matakisi Matakisi Webuye Webuye	1 2 3 4 1 2	OOK/Cess GOK/Service Charge GOK/Service Charge GOK/Service Charge GOK/Service Charge GOK/Service Charge			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of apretion rings Reads program Construction of market sheets Construction of market sheets Construction of public trilets Fearing Towa Han Renovation of Stanghier bours Renovation of the Market	Disvice wide Matakisi Matakisi Matakisi Matakisi Wabuye Wabuye Wabuye	1 2 3 4 1 2 1	OOK/Cas COK/Service Charge COK/Service Charge COK/Service Charge COK/Service Charge COK/Service Charge COK/Service Charge			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects	Construction of aperion rings Reads program Construction of moretuary Construction of market sheds Construction of public toilets Fearing Town Hall Removation of Starghter house Removation of the Market Street Lighting	District-wide Matakisi Matakisi Matakisi Matakisi Wataye Wabaye Wabaye Wabaye	1 2 3 4 1 2 1 7	OOK/Cas COK/Senice Chage OOK/Senice Chage COK/Senice Chage COK/Senice Chage COK/Senice Chage COK/Senice Chage COK/Senice Chage			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of perion rings Reads program Construction of market sheds Construction of public triflets Fracing Town Hall Renovation of the Market Renovation of the Market Street Lighting Read recorpting	Dobict wide Matakisi Matakisi Matakisi Matakisi Webuye Webuye Webuye Webuye Webuye	1 2 3 4 1 2 1 7 3	OKCas OKSenic Ouge OKSenic Ouge OKSenic Ouge OKSenic Ouge OKSenic Ouge OKSenic Ouge OKSenic Ouge OKSenic Ouge OKSenic Ouge			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of perion rings Reads program Construction of market sheds Construction of public trilets Fending Tome Hall Renowsfor of Shurghter house Renovsfor of Shurghter house Renovsfor of Shurghter house Renovsfor of the Market Street Lighting Read recurpting Access roads	District wide Matakai Matakai Matakai Matakai Webuye Webuye Webuye Webuye Webuye	1 2 3 4 1 2 1 7 3 4	OKKen OKKenie Chuge OKKenie Chuge OKKenie Chuge OKKenie Chuge OKKenie Chuge OKKenie Chuge OKKenie Chuge OKKenie Chuge			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of specien rings Reads program Construction of market sheds Construction of public toilets Construction of public toilets Fearing Town Hall Renowsform of Staughter house. Renowsform of the Market Street Lighting Read recargoing Access reads Construction of stadjum	Dustict wide Matakisi Matakisi Matakisi Matakisi Webuye Webuye Webuye Webuye Webuye Webuye Webuye	1 2 3 4 1 2 1 7 3 4 5	00KCcs COKService Charge COKService br>COKSERVICE CHARGE COKSERVICE			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of perion rings Reads program Construction of market sheds Construction of public trilets Fending Tome Hall Renowsfor of Shurghter house Renovsfor of Shurghter house Renovsfor of Shurghter house Renovsfor of the Market Street Lighting Read recurpting Access roads	District wide Matakai Matakai Matakai Matakai Webaye Webaye Webaye Webaye Webaye Webaye Webaye Webaye Webaye	1 2 3 4 1 2 1 7 3 4 5 6	OKCas OKSania Chagt OKSania Chagt OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of specien rings Reads program Construction of market sheds Construction of public toilets Construction of public toilets Fearing Town Hall Renowsform of Staughter house. Renowsform of the Market Street Lighting Read recargoing Access reads Construction of stadjum	Dustict wide Matakisi Matakisi Matakisi Matakisi Webuye Webuye Webuye Webuye Webuye Webuye Webuye	1 2 3 4 1 2 1 7 3 4 5	00KCcs COKService Charge COKService br>COKSERVICE CHARGE COKSERVICE			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of specien rings Reads program Construction of market sheds Construction of market sheds Construction of public triften Fencing Town Hall Renovation of Saughter house Renovation of the Market Street Lighting Read recogning Access roads Construction of social mail Construction of social mail Land requisition	District wide Matakai Matakai Matakai Matakai Webaye Webaye Webaye Webaye Webaye Webaye Webaye Webaye Webaye	1 2 3 4 1 2 1 7 3 4 5 6	OKCas OKSania Chagt OKSania Chagt OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage OKSania Chage			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of aprion rings Reads program Construction of market sheds Construction of public trillets Construction of public trillets Fracting Tome Hall Renovation of Starghter houses Renovation of the Market Street Lighting Read steampting Access roads Construction of social hall Construction of social hall Land sequeition Parchase of fire fighting	District wide Matakai Matakai Matakai Webuye Webuye Webuye Webuye Webuye Webuye Webuye Webuye Webuye Webuye Webuye	1 2 3 4 1 2 1 7 3 4 5 6 7	OOKSess COKSessies Charge COKSessies Charge			
	C.C.) (Mb/atisi Udon Couse) (Webuye	New Project Proposals On-Golag Projects New Project	Construction of specien rings Reads program Construction of market sheds Construction of market sheds Construction of public triften Fencing Town Hall Renovation of Saughter house Renovation of the Market Street Lighting Read recogning Access roads Construction of social mail Construction of social mail Land requisition	Dubict wide Matakisi Matakisi Matakisi Webaye Webaye Webaye Webaye Webaye Webaye Webaye Webaye Webaye Webaye Webaye	1 2 3 4 1 2 2 1 2 3 4 5 6 7 8	OKKer OKKernie Chuge OKKernie Chuge OKKernie Chuge OKKernie Chuge OKKernie Chuge OKKernie Chuge OKKernie Chuge OKKernie Chuge OKKernie Chuge OKKernie Chuge			

# Table - 3.2.1 (11/12)Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997- 2001

	As:0.3	On-Going or New Project	Projent Name	Division	Priority Ranking	Funding Source	7	r-Related I Sewernte	T .
Bush	MWR	On Coing	Ojbo Namasumbi Project(Power house tank)	Ageng'a Funyula	1	COKSDD	Wales	AND A COMPANY	1 0000
		Projects	Laguio Malanga W P (distribution)	Nambaic Butula	2	OOK Dopor	- i	<u></u>	1
1			Funyula Bumata W/Strekabilitation of pipetine)	Same Parte Bais	3	COK/Donor	•		
		1	Busia Mondika W.S	Matayos		OOK Denor	۲		[
		ļ	Nona River Flood Control	Budalanci	5	COK/Dopor			L
		New project	Busia Hiti o 'p	Fenyula Budalangi	1	SDD/GOX	٠		I
		Preposala	Sie Port mis	Fenysia	2	SDDCOK	•		
			Bejumba W.S	Putota	3	SDD/GOK			
			Opto-Nanzvundi Ph II w/p	Funyata Batula		SDD:COK COK/Donor	·		
			Sihirira w p Namonye Dam	Budalangi	6	SDD/GOK			
		1	Sigalame w/p	Funyula		COK Donor		<u>⊧</u>	
		1	Wathongu w's	Funyula	8	QOK Donor		t	
		1	Buhaya wis	Butula	9	OOK Dogor			1
		1	Murende B Women Group w'p	Matayos	10	SDD/OOK	•		1
Į		1	Ebusakati wip	Nambale	11	QOK/ Denor	۲		
[	MOLA	On Coing	Construction of stadium	Busia	1	Municipal Council			
	(Busia Muni.	New Project	Road Reconstruction	Municipality	1	Warld Back			L
	Coandi)	Proposala	Street Lighting	Municipality	2	World Bank			
			Bus Park Rebabilitation	Menicipatity	3	World Bank	l	L	
			Construction of Cycle track and pedestrian	Municipality	4	World Bank		<u> </u>	
			Consulution of service line road	Municipality	5	World Bank		ļ	
			Land Compensation	Municipality	6	GOK		<u> </u>	<u> </u>
i		ł	Construction of market sheds	Municipality	7	GOK		<u> </u>	<u> </u>
		F	Construction of residential housing	Municipatity Municipatity	<u>8</u> 9	GOK GOK	┟╍╍╌╴┦	ł	+
		1	Pare station Construction of Sewerage Treatment	Municipality Municipality	10	GOK	<b>├</b> ───┤	•	
ł	(Busia C.C.)	On-Going	Feoder roads	District-wide	10	GOWCounty Council	┢╍╌╾┦	┢─┛	+
l	And the second	Piejeus	Fencing of market and construction of pit latines	District wide	2	COK/County Council	┟────┤	t	-1
		1	Renovation of social half	Butula	3	COK/County Council		<u> </u>	
		New Project	Elevation of Nambale Town to a council status	Nandrate	1				1
1		Proposals	Elevation of Port Victoria Tewa to a council status	Buđalangi	2	COK/County Council			···
l		1	Elevation of Fanyula Town to a council status	Funyula	3	OOK/County Cooncit	· · · · · · · · · · · · · · · · · · ·	·	1
.		1	Elevation of Bumala Town to a council status	Bututa	4	OOK/County Council		1	
			Purchase hand for auction ring	Butula	\$	COK/County Council			
			Open new market center	Butula	6	GOK/County Council			<u> </u>
			Open new market center	Nambale	7	GOK County Council			1
		1	Sucer Lighting	Per Van ver Pary-Da Parista Barrata	8	GOK Dopor			-
Kalamega	MAR	On Going	Shiton Phase II W P	Ikelomani	)	COK	۲		1
		rojects	licho W P	licho	2	GOK Community	•		
			Kambin W.P	ileho	3	GOK Commonity			
			Navakholo W.P	Navakholo	4	60KCommunity	•		1
			Shikanga W.P	Butere	5	OOK Community	٠	<b></b>	+
			Khwietro W.P	Khwipero	6	COK Community		<b></b>	. <u>.</u>
		New Project	Linke Nacis at 5	Neois Legari		<u> </u>	<u> </u>	<u> </u>	
		Proposals	Baters w S	Bulere	2	<u>00K</u>		<u>+</u>	<u> </u>
		1	Louistanda m.s	Lumakanda Lagari	3	GOK		÷	
		ł	Mariava w.'s	Malava Muquas	4	GOK		<u> </u>	
		1	Otekalni	Chekalini/Lugari	6	GOK	1 <b>.</b>	<del> </del>	+ · ·
i i		1	Mankipality w/s	Kalameta	1	GOK		<u>{</u>	+
	MOLA	New Project	Construction of office complex	B (b Kakamera Mu ai	i	Erry - Chinam of Space - Ch	<u>†</u>	1	
	(Katamega	croposals	Construction of residential housing	Bes Kalaterys Mani	2	8000		1	1
	· ·	1	Purchase Vehice	Bub Kalamera Maai	3	RCCO			1
		1	Purchase exhauster	BO- Kalasere Maai	4	RCCO			
				CAL VERALLA NOTE					
	(Malava		Construction of Bus park	Kugaro, Butere	5	RCCO	<u> </u>		
	Urban Counci)	New Project	Construction of office complex	Kugara, Butere Malava	5	Funds from Cess	<u> </u>		
	· ·		Construction of office complex Electricity Connex Son from main installation	Kogara, Butere Malava Malava	<u>5</u> 1 2	Funds from Cess Urban Council S.C.			
			Construction of office complex Electricity Connection from main installation Reportation of hypoing	Kugara, Butere Malava Malava Malava Malava	5 1 2 3	Funds from Cess Urban Council S.C. Urbas Council			
	,		Construction of office complex Electricity Connection from main installation Resources of hypoing Construction of agrees his market	Kugara, Butere Malava Malava Malava Malava Malava	<u>5</u> 1 2	Funds from Cess Urban Council S.C.			
ļ		Proposals	Construction of office complex Electricity Connection from main installation Reservation of housing Construction of open air market Construction of Stangher stab	Kugara, Butere Malawa Malawa Malawa Malawa Malawa Malawa	5 1 2 3 4 5	Funds from Cess Urban Coencil S.C. Urban Coencil Urban Coencil			
	(Messias Torry	Proposals On Going	Construction of office complex Bestricity Connection from main installation Recordion of Receipt Construction of Stanghers stab Construction of Stanghers stab Construction and mutraming of reads	Kogara, Batere Malawa Malawa Malawa Malawa Malawa Malawa Malawa	5 1 2 3 4 5 1	Funds from Cess Urban Cosmeil S.C. Urban Council Urban Council Council Cess			
		Proposals	Construction of office complex Electricity Connection from main installation Recordion of hypology Construction of space air market Construction of Staughter stab Construction of Staughter stab Construction and marraning of roads Open air market	Kogara, Butere Malava Malava Malava Malava Malava Malasa Mamias	5 1 2 3 4 5 1 2	Funds from Coss Urban Council S.C. Urban Council Urban Council Council;Cass Council;Cass			
}	(Messias Torry	Proposals On Going	Construction of office complex Electricity Connection from main installation Records on a housing Construction of Anogher state Constructions of Staughter state Constructions and morraming of reads Open air market Construction of stated	Kogaro, Butere Malava Malava Malava Malava Malava Manas Manias Manias	5 1 2 3 4 5 1 2 3	Funds from Coss Urban Connoll S.C. Urban Council Urban Council Council Cass Council Cass Council Cass Council Cass			
	(Messias Torry	Proposals On Going	Construction of office complex Exciticity Connection from main installation Recordion of Acusting Construction of Stangher stab Construction and murraning of reads Open air market Construction of stangher stab Construction of stangher stab Construction of stangher stab	Kogaro, Butere Malava Malava Malava Malava Maroias Maroias Maroias Maroias Maroias	5 1 2 3 4 5 1 2 3 4	Funds from Cess Urban Council S.C. Urban Council S.C. Urban Council Council Cass Council Cess Council Cess Council Cess			
	(Messias Torry	Proposals On Going Projects	Construction of office complex Electricity Connection from main installation Recordion of housing Construction of stangature stab Construction of stangature stab Construction and muraning of reads Open air market Construction and muraning of reads Open air market Construction of stands Stabium Stabium Stabium	Kugara, Butere Malava Malava Malava Malava Malava Manias Manias Manias Manias	5 1 2 3 4 5 1 2 3 4 5 4 5	Fonds from Cess Urban Ceenell S.C. Urban Ceenell S.C. Urban Ceenell Council Cess Council Cess Council Cess Council Cess Council Cess Council Cess			
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Tables

### Table - 3.2.1 (12/12) Priority Projects of MWR and MOLA Proposed in District Development Plan, 1997 - 2001

District	Αςιατγ	On-Going of New Project	Project Name Division	Priority	Funding Source	Water Related Project			
				LA CONTRACTOR	Racking			Sewerage	B.⊲
Vihiga	MAR	On Going	Male W P Phase 21	Vibiga Sabaria	1	OOK	_ <b>•</b>	L	L
		Projects	Kaimosi W-S	Sabana, Tiriki East	2	GOK		<b></b> -	i
			Mascno W/S Expansion	Luanda Emuhaya	3	COK		k	
			Chavavo Mihanga WP	Maragoli, Vihiga	4	GOK	•	<u> </u>	
			Bumbo-Shamakhekho W'P	Sheathatho Tedi	5	OOK	•		
			Ebunangwe W/P	Luanda	6	COX	۲	[	Ľ
			Emilindi Zirulo W.P	Emubaya	7	GOK	•		
		1	Macui Bakeyani W P	Central Marageli	5	GOK	•		
		New project	Sabatia Eve Clinic # 5	Sabatia		GOK	•		[
		Proposals	Vihies Water Wells	Districtoride	2	COK			F
		21000315	Vinige Water Webs	Vibiga Tiriki East	3	QOK.	•	1	
-			Effluent Monitoring and health surveillance	District wide	1	GOKABDA	<u>↓</u>	1	i
	Lake Basin	On Coing		Sabatia	2	COKABDA	+		r
	Dev. Autho.	Projects	Solongo brick and tiles			GOK 180A		+	<u>+</u>
- F		<b> </b>	Finheries development project	District wide	3		+	+	<del> </del>
	MOLA	On-Going	Improvement of township roads	Municipal area		GOK		+	
1	(Villiga	Projecto	Water, drainage and sewerage Project	Municipal area	2	COK			
	Meni, C.)	New Project	Bus Park	Vihiga	1	COK		·	<u> </u>
		Proposals	Open air market	Vibiga	2	136			
		l	Construction of Town hall	Mosle Vibiga	3	Municipal Council	L		<b>i</b>
1			Street Lighting	Municipal area	4	COK	1		I.—
	(Vihiga C.C.)	New Project	Visiga Children's home/vocational training center	Enstrict-wide	1	County Council	-		<u>                                     </u>
	,	Proposals	Jeptalu slaughter house	Tiriki East	2	County Council Donor			1
		-	Kaimosi saw mill	sabatia	3		L		1
Teso	MAR	On Going	Malaba Kocholia W P	Augus & Annalise & Annapair.	1	COK.			_
		Projects	Kncholiz Rock Catchment Project	Amagoro	2		•		
l			Lakolis W.P	Amutura	3	COK	•		
			Алецгаї Дат	Angurai	4	OCK Comments Town N/O	1	1	
			Rain water harvesting	District-wide	S	OOK Donor NOO	•		T
		New Project	Latelis B w3	Anulura	1	GOK Donor NOO	۲		
		Proposals	District Headquarters Offices(construction)	Anagoro	2	COKSH			1
			Divisional Offices (construction)		3	COKSH	1		í
			Rain Water Harvesting	Districturide	1	COL NGO stadiota	•	<u>†</u>	1
				- Courter for	· · · ·	0000000	1		<u>i</u>
			Station Wells,Barcholts, Spring Fratection, Dama and Water Franc	Districtwide	5	COK/NOO's Donor	•		1
M. Elgon	MAR	On Geing	Kapsokwony WS	Kapsokwony	1	GOK		1	1
w. cuos	200 R	Projects	Chesitaki W/S	Ocptais	2	GOK		1	1
		ricker	Kutere Kiosabula W/S	Kopsiro	3	GOK	1		+
				Kapsokwony	4	GOK			1
			Kimoba W P		1	GOK		1	
		New Project	Kopsire W.S	Kopsiro Kaptama	2	GOK		+	
		Proposals	Kaboywo W/S		- 4	GOKEMDA			-t
			Community Water Supply Management Programme.	Districtwide					
	MOLA	On Going	Kapsokwony Town half Construction	Kapsokwony	1	Harambee			
		Projects	Construction of public tailes	Карзіго	2	Town Connoi		+	+
		New Project	Acquisition of land	Districtwide		COK	- <del> </del>		··
		Proposals	Construction of public toilets	Districtwide	2	GOK	+	-+	+
		1	Construction of Staughter slob	Dutrictwide	3	<u>Çok</u>			<u> </u>
		1	Tenant Purchase Housing scheme	Kapsokwony	4	GOK/NHC	+		_
	l		Construction of sewerage system	Kapsokwony	5	COK	_ <b> </b>	•	
			States Lighting	Kapsokwony	6	COK			1
		1	Construction of stadium	Kapsolwony	7	OCK.	1		

Source: District Development Plan, 1997 - 2001

Districts Without Data:

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Isiolo, Kitui, Masaku, Moyale, Nithi, Siaya, Migori, Gucha, Rachuonyo, Suba, Kipsigis, Nakuru, Narok, Bomet, Samburu, Turkana, West Pokot, Koibatek and Malava/Lugari, Kiambu, Muranga, Maragwa, Kilifi, Taita Taveta, Malindi.