Figure - 12.1 Implementation Schedule of Strengthening Plans for Public Administration, Legislation and Financial Administration

	Area/Projects	Executing Agency				lmp	olem	ienta		Sc!	eđu	le		·	
Lucione de la companya de la company				20	000				20	05	_			201	0
1,	Improvement in Public Administration			_	_		_	4	_}	4	1	_		_	
	MWR				_					_				1	_
1.1	Establish Sewerage Division	MWR, (MOLA)							\Box			\perp	\perp	\perp	
12	Establish Water Resources Management and Regulation Department	MWR											┙		
1.3	Hand over water supply schemes to upgraded LA's	MWR (MOLA)											#		
1.4	Select community groups to receive water supply schemes and hand over when ready	MWR.											_	_	
1.5	Strengthen support for rural and community water supply schemes	MWR, (NGOs)			ì								\perp	$oldsymbol{\perp}$	
1.6	Set up independent central regulator for water undertakers and sewerage providers	MWR (MOLA)												\perp	
	Community Water Supply Schemes													$oxed{oxed}$	
1.7	Assessment of development options for new and extension schemes	MWR, (MCSS), (NGOs)													
 -	National survey of community schemes	MWR												\int	
1.9	Water quality test for community water supply schemes	MWR													
	Local Authorities and MOLA												\prod		
1.10	Commercialise remaining 7 municipal water and sewerage departments (6 under GTZ) and supervise pilot water and sewerage companies	MOLA (MWR)		Γ		F		{					Ţ	T	
1.11	Upgrade additional 5 municipalities and appeint as water undertakers	MOLA, (MWR)	†	1	F	F	┪							7	
-	Commercialise 5 municipal water and sewerage departments	MOLA, (MWR)	T			F	 			Г				┪	
-	NWCPC	<u> </u>	T	T	┢	T	1	Τ	t				H	7	_
-	Hand over water supply schemes to upgraded LA's	MWR	十	†		-	-	ļ.,	ļ.,		-			-	
1.14	Apply scheme aflocation criteria to receive hand over water supply schemes from to	MWR, (NWCPC)	✝	-	ļ.,	▎	†-		T				\Box	\sqcap	
ļ	MWR Organisational, operational, financial review	MWR, (NWCPC)	T	F	╅┈	╁╌	十	1-	1	T	┪	-			
	Personnel Administration		十	╁	Ť	T	T		1	-		<u> </u>			
1	Establish pay policy for Civil Service	MWR, (Office of the	†	 =	-	十	†	\dagger	┪~	T	┢	<u> </u>	Н		
}	Review Public Service Commission	President) (MOF) MWR	十	╞	1	╁	†-	+	 	†-	†-	1		H	
2.	Amendment to Legislation		t	t	T	t	†	T	十	1	T	T	H		, i
<u> </u>	Short Term		十	1	十	✝	†	T	1	T		T	H		_
2.1	Water Act modification	MWR	t	╞	╡	t	†	╁	╁	╁	┢╌	╁		П	_
2.7		MWR	十	ŧ		†	\dagger	1	1	\dagger	t	T	 		
2:2	District Transfer		†		+	十	†	十	╁	╁	╁	✝╴	†		_
-	Long Term		十	\dagger	╅	t	†	t	T	十	t	1	╁		┌
2.4		MWR	\dagger	十	-	+	+	十	十	十	╁	†	十		
2:		MWR/MOENR	+	+	†	+	\dagger	十	╞	‡	⇟	\dagger	T		
Ъ	Establish single enforcement agency for water and environment	MWR/MOENR	+	十	\dagger	十	十	┪	-	+	╅╴	T	†	†	۲
1	Implementation of the Law		+	+	+	+	+	+	+	†	t	+	T	 	H
-		MWR (WAB)	+	╁	+	+	+	+	十	+	†	†	十	t	H
2		MWR (MOLA), (MOL	,	-	‡	+	十	\dagger	1	+	T	+	+	T	t
-	Improvement in Financial Administration		+	十	+	十	+	\dagger	十	十	T	十	†	†	t
3.		MOF, (MOP), (MWR)	+	+		╁	十	十	+	†	\dagger	+	十	T	t
3.	- 1014 100 AUG AUG AUG A	MWR, (NWCPC,	+	+	-	1	+	+	+	\dagger	+	╁	十	十	t
3		MOLA) MWR (MOLA)	+	-	\pm	1		_	#	4	+	#		<u></u>	ŧ
3	- 	MWR, MOLA, Others	+	+	-	╁	+	+	+	+	十	+	+	╁╴	十
3.			+	-[\int	1		1	-}-	╁	十	+	+	+	+
3.	5 Technical Assistance for Legislation and Public Administration Development	MWR, (MOLA)			I.	I	I		1						_ـــــــــــــــــــــــــــــــــــــ

Figure - 12.2 Implementation Schedule of Improvement Plans of Operation and Maintenance Systems

	Area/Projects	Executing Agency				Imp	olem	enta		Sch	edul	le			
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1.	Water Supply O&M Improvement			_	_		_	4	_		4		4	\dashv	4
1.5	Establish functional metering system	MWR, (MOLA), (NWCPC)										4	4		_
	* Establish necessary training courses							_	_		_	_	_		
	Train staff (meter readers, accountants, meter, technicians)										_	_		_	_
	Set up, refurbish meter repair shops		Ц								_	_		_	
	Repair, acquire meters														
	* Prepare, conduct public awareness campaign				-									╛	Ш
12	Leakage control	MWR, (MOLA), (NWCPC)												•	•
┢	* Establish new training courses				-								Ш		
	* Train staff (leakage control technicians)					-			-						
一	* Acquire, install master and service meters		T	П		F	-			$\lceil \rceil$					
\vdash	* Set up or refurbish detection equipment		T			F	-		Γ	П			П		
\vdash	Prepare leak detection programmes		1	H			T	Γ		П			П	Г	Γ
\vdash	* Implement programmes		1		Г	L		-						a. 1	
١,	Customer registration	MWR, (MOLA), (NWCPC	,	Ħ	<u> </u>	F	F	F	Ļ	-					Γ
1.4		MWR, (MOLA), (NWCPC	+	10 1								•			
1		MWR	+	\vdash			 	†	┢╌	忊					Т
}		MWR, (MOLA), (NWCPC	\pm					╀	┢	t	T	t	T	一	Ħ
3.6			╁	╁╴	┝	╁	╁	╁╌	t	╁┈	H	-	T	T	t
2.	Sewerage O&M Improvement	MOLA (MWR)	╁	L	L	上	1		1			١.		ļ	+
2.1			╁	Е	F	Ł	E	\pm	Ŧ	}-					+-
2		MOLA, (MWR)	╁	E	}	-	+	\vdash	T	╀	F	H	+	Н	F
L	Define organisations, staff levels, skills needed		╬	F	l	╁	╀	┼-	╁	-	╂−	╁	+-	╁╴	╁
	* Audit of personnel in post		+	-	F	1	╀	+	╀	╁	╀	╀	+	╀	╀
	Identification of vacancies, training needs, nonperforming surplus staff		4	╀-	╀	_		\perp	-	-	 	+	+-	\perp	+
L	Implement above programme	_ 	\perp	\perp	1	1	F	1	1	1	ŗ.	-		H	-
2	3 Procure facilities, equipment and tools	MOLA, (MWR)	4	1	ľ	1	‡	1.		1	1	1	1	<u> </u>	-
Г	* Establish minimam overall needs		1	┸	ľ	1	1	1	_	1	\downarrow	Ļ	1	1	\perp
	Determine minimum net needs		┸	┸		┫.	┸	1	_	1	_	1	\downarrow	\bot	\downarrow
Г	Acquire agreed numbers						+	<u> </u>	1	<u> </u>	•	•	-	ŀ	\$
12	4 Establish preventive maintenance program and standard operations procedures	MOLA, (MWR)			ŀ	#	+		+		\perp	\perp	\perp	1	\downarrow
十	Prepare detailed sewer inventory					+		+	+		L	\perp	1	\downarrow	\perp
t	Prepare maintenance schedule Prepare maintenance schedule				F	\pm	-					1		\perp	\perp
1	Develop work order systems		T	T	T	F	-		\int						\perp
 	Prepare standard operating procedures		T	T		1		-	Ŧ						
 	2.5 implement industrial wastewater pre-treatment program	MOLA (MWR)	1	1		+	+	+	+	-		I			\int
۲	Prepare inventory of dischargers		寸	T	-	7	7	=	T	T	T	T	T	T	T
ŀ	Obtain equipment		1	1	7	7	7	#	4	\top	1	1	T	T	T
H	* Monitor industrial effluents		十	+	7	7	+	-	#	╡	1	1	1	†	7
L	2.6 Technical Assistance at each facility to implement improvement programme	MOLA, (MWR)	\dashv	~ <u>L</u>	1	Ⅎ	士	1			†	1	十	+	1

Legand: S S W : On-going actions

Figure - 12.3 (1/3) Implementation Schedule of Urban Water Supply Development Plan

					Production Capacity to be	Project Co	1		Implementation	o Sched	ule		
Province	Code	District	Code	Urban Center	expanded	(1,000	US\$)		•	:	Sce	nar	ìo
			<u> </u>		(1,000m3/day)	Reb.	Exp.	2000	2005	2010	A	₿	,C
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			U-4	Kiambu	2.0	120	0			┫╌┃╌┃	<u> </u>		<u> </u>
	1		U-5	Kikuyu	1.7	147	12,492				<u> </u>	ļ. I.	. .
			U-7	Ndumberi	3.4	0	3,849		200		0]_[.	_ 0
	1	ļ	U-8	Ruira	17.8	185	9,712				. 이	Ш	. 9
	<u> </u>	!		Thika	0.5	2,641	651					Н	4
	220	Kirinyaga		Kerugoya/Kutus	5.7	338	3,956			9-1-1-	<u> </u>].].	وا۔
	ļ			Wangoro	0.0	286	0	$\sqcup \sqcup$				11	+
	230	Muranga		Makuyu	0.1	109	0			1-1-1-	-		- ;
				Maragua	4.3	45	1,794			-111	.	1-1-	-1-
	.	<u> </u>		Muranga	14.9	319	8,195	1-1-1-6		╇┼┼	ᆛ	₩	-49
	240	Nyandarua	1	Nyahururu	19.9	735	233,722	- - F		-	. [일-	의	۱,
		1		Of Kalou	3.9	59	653	┠╌╏╴ ┇		- 	<u> </u>	╁╂	-19
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		i		Karatina	4.9	247	3,779	I- {-}-			<u> </u>		.].
	1			Nyeri Othaya	28.8	933	19,248	- - -			<u> </u>	- -	-
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				Mambrui	0.0	1,267	31,364	! - - -)				-	-
	1		1	Marikani	1.4	236	693	1.			3	Н	
				Watamu	1.3	0	1,390	- - -		-5111	7	- -	-1
	320	Kwale		Kwale	0.0	723	0	 		3++	ő	††	T.
	120	R. a.c.		Lungalunga	0.7	51	735	- - - <u> </u> -			<u>-</u> -	ŀ	·
				Msambweni	5.2	142	3,795	إعلنانا	日本 日日		- " .		~
	330	Lamu	_ +	Lamu	3.5	117	678			111		0	1
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			U - 55	Voi	4.7	380	3,648			•	- 0	11	Ė
	Į.		U - 56	Wundanyi	1.4	407	759		- · · - - - -			11	ľ
	360	Yana Rivee	U - 58	Garsen	4.3	57	2,723				į.	ि	П
		ł	U - 59	Hola .	3.8	105	2,038		# = 1		0	0	Ш
Eastera	410	Embu	U - 60) Embu	10.0	655	6,393				- 0	\prod	
		1	U - 61	Runyenjes	1.6	62	1,548				∎்		Ĺ
	420	Isiolo	U - 63	Isiolo	9.5	547	10,073				P O	П	
			U - 64	Madogash	1.0	0	0				ା	П	
			U - 65	Merti	0.4	33	519	1			- 0		Ц
	430	Kitui	0-6	3 Kitui	2.2	365	14,575				0	Ш	Ц
	440	Masaku	U - 69	Athi River	4.5	319	11,971	1 1 1			<u> </u>	. [.	_
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	<u> </u>			Sololo	2.1	33	858					1	L
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Figure - 12.3(2/3) Implementation Schedule of Urban Water Supply Development Plan

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1				64 Kitale	20.6		47	10,926	-	f				П	П	ा	Т	T
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!	L			72 Turbo	1.3	- -	127	1,143		4	<u> </u>		7	-	7	件	+	ł
ì	79	0 Transmata	U · 1	74 Kilgoris	3.0		249	2,566	_	=		-	₩	++	+	의	10	4
I	81	0 Baringo	U - 1	78 Eldama Ravine	0.0) 1,	129		- 1 - 1				- - -	4.	. []	ૃ .	. .	
1			U - 1	79 Kabarnet	26.	7	451	38,098			<u> </u>		+	4.1		ō	[0	١
		ļ	U - 1	80 Maji Mazuri	. 0.	2	98	249					7	+	+-	ò	- -	_]
1		1		81 Marigat	0.	3	146			ĿΙ	-	ĦĨ		\prod	\mathbf{L}^{i}	9	_	Į
ſ		1		182 Megotio	O.	+	171	35,672	Ĩ	[]	- -			#	—	Э	_]	!
	- <u>-</u> -	0 51-1-1		183 Iten	1.	- 	95	5,038	_	П	111		4000			[5]	T	Ī
1	<u> </u>	O Elgeyo Marakwe			5.		179	1,479	-	H	╌╂┼┤	F	耳		1	너	十	4
Ĭ	8.3	0 Nandi		185 Kapsabet + Baraton	0.	- : -	_		-	╁╂			=	$\exists \exists$	王	Ħ	\dagger	۲
						7.1	184	j 500	<i>,</i> ,	. 1	T 1	· 1——			_	٧.	_1.	
1	8-	10 Samburu		188 Masalal 189 Wamba	<u>-</u> 5.	 	75	4,865		 -	لنثا		ننا	_]	· [~	LI		'

Figure - 12.3 (3/3) Implementation Schedule of Urban Water Supply Development Plan

Province	Code	District	Code	Urban Center	Production Capacity to be	•	ct Base ost		Implemen	itation S	Schedi	ile	
1 TOTELLE	1,	Prince	(000	OI DAD CTURE	expanded	(1,00	0US\$)					Sce	nario
	L_	<u> </u>			(1,000m3/day)	Reb.	Exp.	2000	2005		2010	Α	B C
	Γ		U - 191	Kalokol	0.4	43	27					ા	С
	i	:	U - 194	Lodwar	5.4	260	150					ાં	c
		1	U - 195	Lokitaung	0.7	79	27	Ш			ŀ	0	
	\$60	West Poket	U - 197	Kapenguria	3.4	139	2,833	<u> </u>			$\prod_{i=1}^{n}$	္ _	C
	L	<u> </u>	U - 198	Makutano	3.3	101	2,836					o l	C
Western	910	Bengoma	U - 199	Bungoma	12.1	641	6,472					ા .	C
		1	U - 200	Chapatais	00	505	0		307			၂	
			U - 202	Kikitifi	37.1	475	23,414				Ш	္]	
			U - 203	Mawalie + Malakisi	1.2	0	1,305	片			1.1.		<u> </u>
			U - 205	Webuye	14.9	300	10,159	Ш			Ш	0	$\Box \Box$
	920	Busia	U - 206	Busia	12.7	455	3,422	$\prod_{i=1}^{n}$. _ _	္_	_ _ 9
		1	U - 207	Malaba Town	1.3	0	0	Ш				<u> </u>	
	L		U - 208	Nambale	1.0	43	1,129	Ш		30		0	
	930	Kakamega	U - 209	Butere	40	74	3,102	I .I .I .			11_	ୁ	
		1	U - 210	Kakamega	16.9	1,161	10,751	I I I.					
	L		U - 211	Mumias	9.2	292	5,340	Ш			Ш_	၁ ၂	Ш
	940	Vihiga	U - 213	Luanda	23.6	309	15,331				. . .	o	0 (
	İ		U - 214	Mbale	6.3	114	34	lĦ				<u>0</u>	0 0
	<u> </u>		U - 215	Vihiga + Majengo	4.3	41	0	175		Ш	Ш.	ા	
		To	ta]		1,315.1	44,505	1,243,036						

Legend

: Feasibility study , detailed design and financial arragement and pre-econstruction procedures

: Construction period

: Pre-construction stage and construction period

Figure - 12.4 (1/2) Implementation Schedule of Rural Water Supply Development Plan

				Existing		Proposed	Projects						1m	ple	nent	atio	o S	hed	ole r				
rovince	Code	District	Type	Schemes		Pro. Cap	Cost (1,0	00U\$\$)	-		Т				1	_			\dashv		Scen	3110	
ļ				Nos.	Nos	(m²/d)	Reh	Exp	Ļ	30	Ŷ	-	T	21	X05			20	٠Ť	<u>^</u>	7	-	É
traf	210	Kianibu	LS SS	18		6,730	<u>\$,80\$</u>	2,334	-!		-	1		-	-		+		_	<u> </u>		L	2
Ì	220	Kirinyaga	15	14	e		4,515	<u>o</u>			-	- -	-	F	Π		-		-1	0	- -	-	1
1	230	Muranga	LS LS	5	0	0 0	1,613	0			1		1	F		+	+			٥	_	1.	
	٠.٠٠		SS	,	1,835	10,478		3,633	-	H	4	+	+	╘	Ц			E		0	╬	╁	1
	240	Nyandarna	LS_ SS		- °	0	2,580	0	Ŀ			1								0	_	1	1
	250	Nyeri	1.5	44	o	0	1,290		-	-	-	-	- -	F		-	-		-	0.0	-	1	1
astal	310	Kilifi	SS LS	44	0	<u> </u>	5,290	0	T	F		·		1		,	_ -	. [-		0 0		<u>-</u>	-
	230	Kwale	LS	2	2,416 0	13,804	645	4,784	t	E							1	-	1	01		•	Ţ
	520	- Ware	SS		2,050	11,883		4,615	╀	-	Н	Ę		-		H	-	-	+	0		<u> </u>	1
	330	Lamu	LS SS	!-	37	207	323	73	1		-									٥		0	4
	340	Mombasa	LS SS	- 5	6	3,106	1,613	9,395	-	\dagger	F		1		E	-		1	E	ō.		1	1
	350	Taita	LS	6	0	0	1,935	0	Γ	-	-	-	-[1-	F		1	1	0 0	-	- -	-
	360	Tana River	I.S	2	0	0	645	0	1	F	<u>L</u>		_		•			1.	1	0		٥	1
			SS	<u> </u>	123	694	1,935	244	╁	╁╴	╀	П	7	7	╪	Ļ	H	+	\pm	<u>0</u>	H	9	_
astem	410	Embu	LS SS	- 6	648	3,694		1,283	1	1	-		-	_					Ť	٥		4	_
	420	Isialo	LS SS	2	0	<u>o</u>	645	0	1	-[-	L			1				-	1	9		#	-
	430	Kitui	LS	3	0	5,112	958	1,774	-	F	Ī	L	<u> </u>	4	┩╴	╀	$\left\ \cdot \right\ $		-	õ		0	_
	440	Masaku	LS	12	896	0	3,870	0	1	- -	1-					Ė			Τ-	0		2	_
	420	Marsabit	SS LS	13	1,363	7,785	4,193	2,699	_	1	1					H	H		#	9	-	0	
	\perp		SS		6	0	968	0	-	╀	╀	╀	Н	Ļ	+	1	H	4	-	0	_	٥	_
	460	Meru	LS SS	3	0	0		0	-	1	1	1		Į		1]	_ 9	<u> </u>	Н	_
	470	Nyambene	LS _\$S	10	764	4,362	3,225	1,513	_		1		Ė	Ц			上		#	9	1		_
	480	Tharaka Nithi	LS	4-	110	626	1,290	218	-			- -	-	H	7	T	F	H	4	2		L	_
	490	Mwingi	SS LS	2	5	6,815	645	15,326	_	-	T	1	F						-		<u>}</u>	2	
) Makueni	LS		523	2,955	1,290	1,036		Ė	<u>+</u>	÷	F	H		+	1			. [2	o	Ĺ
	1	<u> </u>	SS		1,344		2,258	2,661	\vdash	-+	+	╀				1	Ļ	Н	\vdash	-	<u> </u>	0	H
North-Easte	:m 510) Ganissa		-1	28	151		55]	1	П	Н	4	<u> </u>	0	
	52) Mandera	LS SS		- <u>5</u>	2,594 1,199	1,935	$-\frac{7.829}{420}$		-		-	F	F		7	-				<u>-</u>	000	1
	53	0 Wajir	L	12	2	665	3,870	914 20	_		-	Ī	1	T	Ħ	7		-		1	<u> </u>	0	ŀ
Nyanza	61	0 Gusti	S		10 0	51	1,935	0			-	1	Ē	+		1			耳	_	٥.	0	T
.1,00.20			S		8,23 D	3 47,036 0	3,543	15,30	13	╂╂	-	+	+	╁		<u> </u>			H		0	٥	t
	63	() Kisamu			610	3,483		1,20	8		4		Į				Ļ	•	Ħ		0	0	ł
	63	Siaya	_ <u>L</u> _5	5 14 5 -	0	0	4,515	0			-	1	1	-			_				0	_ º	4
	6:	10 Нота Вау	L	5 2	498		645	984		$\left\{ \cdot \right\}$	-		-[-	F	H		1	}			0	0	4
	63	50 Migori	1	S 1	. 0	0.	323	0		Г							-1	T		-	0 0	0	, [
	_			S - S 5	3,41		1,61	6,75		L			Ŧ	T	딈		+	1	1_		0,0		2
		60 Nyamira		s -	1,01	8 6,160	·	2.1		1	H	H		ļ	Ξ			1	╬	H	o o	9	2
Rift Valle	ey 7	10 Кајгадо		s 7	0		2,25	\$ 0 19		Ŀ	-		1				-1	1	丰		0		2
1	1 7	20 Kipsigis		S 2	0		645	- 0		. [Π	Ē		-1-	T	-	-	- -	-}-		0	-	2

Figure - 12.4 (2/2) Implementation Schedule of Rural Water Supply Development Plan

				Existing		Proposed	Projects						Implemen	tation S	Schee	jule				
Province	Code	District	T) pc	Schemes														Scen	ario	_
				Nos.	Nos	Pro. Cap	Cost (1,0				١					.			٠.	
]			A03.	1402	(m /d)	Reb	Exp		200	Ø.		2005		. 2	010	4	E	7	_(
	730	Łaikipia	1.5	1	0	0	323	0		_	I.	Æ			- -	-	오	_ \$		ŀ
	1	-	\$8		593	3,379		1,174		Ц	-↓.	1			┸╸	1	0	-49	4-	ŀ
	740	Nokuru	1.5	7	0	0	2.258	0	_		_ .	_ _	1- 1-1-1	-		1-	Q	-1-		ļ
			SS		418	2,378	·	828		_	_	_		┵	-	ļ	٥	4	┺	ŀ
	750	Norok	L5	6	1	5,975	1,935	12,196			-1			-		Į.	٥		2 -	ŀ
	1		SS		574	2,987		1.038	Ш	Ц		7	\Box	_ _	╧	 -	٥	-49	_	ļ
	760	Frans Nzoia	LS	0	0	0	0	0	_	 _	-	_	1-50	-1-1	}	1-	<u>o</u>	٤		1
		ľ	SS		2.864	16,358	<u> </u>	5,671			4				٦_	ļ	٥	\rightarrow	>	1
	770	Uasin Gishu	LS	8	٥	<u> </u>	2,580	0)		1	_F			_ _	1-	9		≥	ŀ
	l l]	SS	-	0	0		0		Ц.	4	_			4_	1.	0	_ (2	1
	780	Bornet	LS	3	0	0	968	0	!		Ĩ		-		_1_	<u></u>	0	4	- -	
	1	İ	SS	-	4.258	24,327		8,431		Ш	_	Ŀ	1-1-1-	7	-	Ţ	0	4	-	4
	790	Transpiara	i.s	2	9	7,122	645	15,328	-!							-1-	2		임.	-
			\$5	-	0	0	<u> </u>	0		Ц		7		$\sqcup \downarrow \downarrow$	_	L	ç	. (٥	4
	810	Baringo	LS	4	Û	0	1,290	0	l			_E			_ _	.l.	0		٠.	
			SS	-	0	0	<u> </u>	0	L.	Ш					_	4	0	_	٥.	4
	820	Elgeyo Marakwei	LS	. 5	0	0	1,613	0		Ш	_	_ f			-1-	- -	0-0	-1	₽	_
		* '	55	-	816	4,655		1,616	L	Ш			<u> </u>			┺	o		<u>•</u>	_
	836	Nandi	LS	3	0	0	963	0	L	1.1	_	-5			4 3		0		<u>.</u>	-
			SS		3,119	17,822	L	6,176	<u> </u>	Ц	_	_			7	1	o	Н	٥.	4
	840	ริงสอังการ	LS	8	0	0	2,580	0	1_	1_1	_1				_ [.	7.	٥	Ц	4.	_
	1		SS	-	0	0	<u> </u>	0	L	Ш		┛	$\bot \! \! \! \! \! \! \! \perp \! \! \! \! \! \! \! \! \! \! \! $			1	٥		4	4
	850	Turkana	LS	6	5	2,544	1,935	7,829	L	L		_			-	7	ιō	-		_
			SS		0	C	<u></u>	00	L	Ш		_		Ш		-	o.	 _	-+	_
	\$60	West Pokot	LS	5	0	٥	1,613	0	l_	1_1		_£	- T. T		\perp	-上	٥	Ц	٥.	
	1		SS	-	0	0		0		Ш				\sqcup	Щ.	1	0	Ш	0	_
Western	910	Bungoma	LS	14	1	433	4,515	1,566	١.		Ц	f			Π.	4	٥.	Ш	٥	_
			SS	-	767	4,361	l	1,519	L	Ш		_			Щ	4	٥	Ш	의	
	920	Busia	LS	9	0	0	2,903	0									٥	Ш	4	_
	1		SS	-	920	5,249	<u> </u>	1,622	L	Ш	Ц	Ц	444			Τ	9	Џ	4	_
	930	Kakamega	LS	7	0	0	2,258	0	1	1	L				ļļ.	- -	0		의	_
	-	-	SS	T	4,296	24,543	<u> </u>	8,506	Į.		Ш	L!	7:1		Ц	_	0	$\overline{}$	이	_
	240	Vihiga	LS	6	8	6,598	1,935	13,762	Į.		L.		_ _ _			- -	٥	Įl	위	_
	1		55	-	1,522	8,690	<u> </u>	3.014	L			Ц			Ш	L	0		ા	
		Total	LS	295	52	35,853	95,138	54,147	Ι											
			SS	· · · · ·	51,131	291,969	1	131,239	1											

Legend

LS: Large scale rural water supply SS: Small scale rural water supply

: Feasibility study, detailed design and financial arrangement and pre-construction procedures

: Construction period

: Pre-construction stage and construction period

Figure - 12.5 Implementation Schedule of Livestock Water Supply Development Plan

				Total Storage	Cost					Im	pier	uen	tat	ion	Sch	redu	ıle —				
Province	Code	Dsitrict	1 1	Capacity													上	Sc	ena	rio	1
			Nos	(1,000m ³)	(1,000US\$)		200	0			2	005				201	0 A		_В		_(
entral	210	Kiambu	3	150	92		Τ	Т	Т	Т	П						0		L	_	L
riji (a)	220	Kirinyaga	3	150	92		Ţ		- -								0				L
		Muranga		150	92		-										o	1_	_L_	L	
	240	Nyandarua		200	122	-	- -	_		T	1						0		Τ		
	250	Nyeri		150	92	-	T	-1-	-1-	1-	1						0	, [``			Ι
		Kilifi	3	150	92	\sqcap	7	十	1	T	1						0	.T	Τ	Γ	T
oastal	310	Kwak		350	214	- -	†	1	1	1-	1	E					0		1	l-	1
	$\frac{320}{330}$	i — — — — — — — — — — — — — — — — — — —		100	61	- 	1	-1-	- -	- -	T		نصا				0	- 1 -		Г	T
		Lamu		50	31	1	╌	+	-†-	-1-	-					4	c	_	1	-	ľ
	340	Mombasa Taita	2	100	61	1-1-	- -	~[-6	-1-	<u> </u>				T	-	_ ~		1	<u> </u>	
	350	i		700	427	┠╌┠╴		1		-L.	1				7	- -	7,	-1-	0	-	1
	360	Tana River	5		153	┠╌┼	十	+	Ŧ	Ŧ	T	H	-	Н			Ξ,	╅	十	┢	t
adem	410	Earba	-11	250	61	 -	- -	-†-		_L	٠.		<u> </u>		-	=	7		1-	1-	†
	420	Isiolo	2	100	427	 −†	╁	-†-		 -	7=	Έ					_1_	5	0	┖	t
	430	Kitvi	14	700	336	╂─╂	+	-†	Ŧ	Ŧ	T	F	=						<u>*</u>	i	t
	410	Masaku	11	550	458	{ −†	-	-1	-‡	_			E	—		Ŧ	-1-	<u>-</u>		十	1
	450	Marsabit	15	750	183	╁	+	+		-	1	F	L	П			_ 7	+	+	1	1
	460	Mere	- 6 -	300	153	l+	- 🛉				十	F	L=	J					-	╆	t
	470	Nyambese	5	250	1	╂╌╁	+	1	-+		- -	₹				-		,	1	+-	~
	480	Theraka Nithi	6_	300	183	1-+	-†				1-	干	1==				7-	7	- -	╈	1
	490	Mwiogi	- -	350	214	╂┼	+	#	=	-1-	_	-	F	1	П	\exists		2 -	١.	:†~	-
	4A0	Makueni	79	3,950	2,410	╂┼	+	-	≕		1	}-	┢	╁╌	Н	-	-	-	0	+-	+
North-Easter		Garissa	93	4,900	2,989	╂┄╂	}		=			}-	-	1-	Н		- 1	2			1
	520	Mandera	23	1,150	702	╂╌╂	-}		\equiv]	H		~	1		<u> </u>	1	-1	-1
	530	Wajir	39	1,950	1,190	╄┼	+	-	_	Ŧ	-	} =	1	┺-			_		╬	+	╅
Nyanza	610	Gusti	5	250	153	╀╌┼	-	-		+	+	╆	J.	Ψ.				앜	+	╂	1
	620	Kisumu	6	300	183	1-1					- -	⊨	E	1=	-			악	╁	-	1
	630	Siaya		300	183	┨╼┨		- 1		+	╀	- =	T	T-				<u>이</u>	┿	╫	┨
	640	Homa Bay	4	200	122	1-1	-1		\vdash	4	- -		J.	F.:				악	+	╁	-
	650	Migori	2	103	61	╂╾╂	\dashv	-			- i -	╆	1	=	☲			익		╁	1
	660	Nyamira	4	200	122	┦	_	_		_	_	Ł	1	E			-	악	┽	╫	ᅥ
Rdt Valleey	710	Kajiado	28	1,400	854	-[-		T		1	-	_		_	<u>₽</u> -	-	╀	
İ	720	Kipsigis	4_	200	122	+		_	_		\perp	-	1	-				익		-	-
	730	Ladipia	8	400	244	1					<u></u>	=	1)	1-4		와	+		
	740	Nakuru	33	1,650	1,007	4			Ц				7-	Ŧ	\	H		의	-	- -	-
	750	Narok	16	800	488	4-4	Ц		=			-	1	1_	L	<u> </u>		의		2	
	760	Trans Nzoia	2	100	61	-1					1	_	T	-1	; =		-	의	-	- <u></u>	-
	770	Uasin Gisbu	5	250	153			<u> </u>	-	\Box	Ŧ	-	Ŧ	1				의	4		_
	780	Bornet	6	300	183	_	_					-		1		1—	_	의	+	+	_
	790	Transmara	3	150	92	- _			ļ		_L	╧	Ŧ	1		-	-	9		-	
	810	Barmgo	44	2,200	1,342	- -	<u>-</u> '		=		-1	-)_		L	L			의		<u>°</u> .	
	820	Elgeyo Marakwet	2	100	61	-	_	<u> </u>	!		4	<u>-</u>	Œ	Ŧ		Τ		이	₁	-	
1	830	Nandi	5	250	153	4	ļ	<u> </u> _	L	Ļ.ļ		Ę	_	T =	E	1		으		-1-	
	840	Samburu	18	900	549		L	_	<u> </u>	<u> </u>		F	I		-	F		٥	\vdash	4	
	850	Turkasa	12	600	366	┺	l	L	_						5_	1-	Н	으		4	_
	860	West Pokot	12	600	366	Ļ	L.	L	L	_	_	_	Ţ			\perp	Ш	0	\vdash	4	_
Western	910	Bungouna	4	200	122	1_	L		L	Цļ			_	J.	1	1=		0		4	-
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Legend:

[:] Studies, surveys, detailed design, financial arrangements, etc.

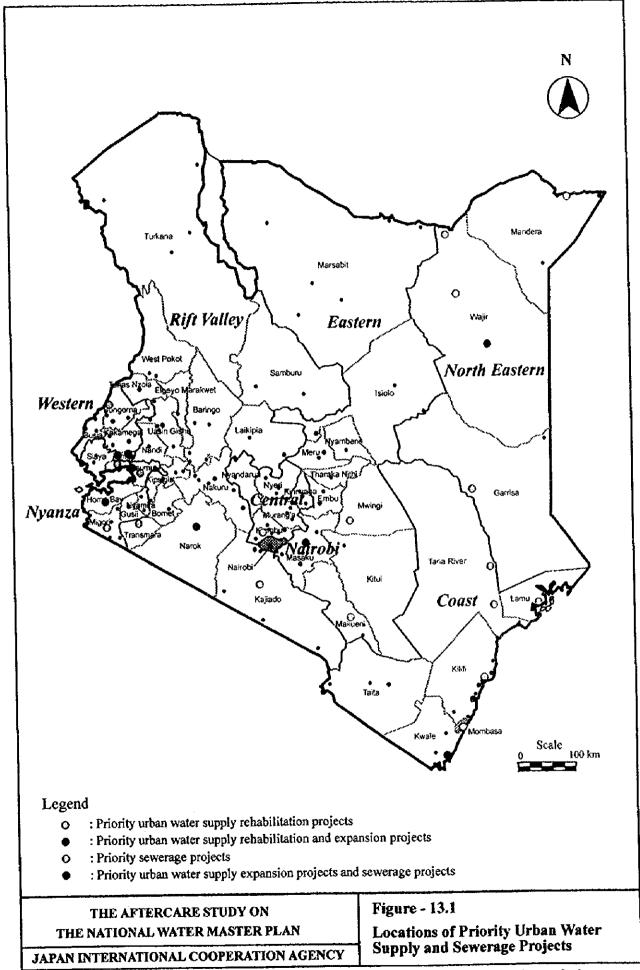
[:] Construction

Figure - 12.6 Implementation Schedule of Sewerage Development Plan

Code 110 740 340 620 770 440 460 250	District Nalmai Nakuru Mombasa Kisumu Uasin Gisho Masaku Meru	U-1 U-159 U-159 U-52 U-52 U-120 U-166	Urban Coner Nairobi Dundura Nairobi Kariobangi Nakuru-town Nakuru-Njoro Monibasa Phase I Monibasa Phase I Kisuma Phase II Kisuma Phase II Eldoret Conventional Eldoret Ponds Machakos Phase I	Treatment Works 42,224,000 9,897,000 7,782,000 6,425,000 0 48,225,000 0 4,551,000 5,022,000 0	Sewer Reticulation 33,535,000 33,662,000 11,335,000 5,884,000 11,936,000 13,587,000 24,304,000		200			- - - - -		005				2010		0.0.0.0			C 0: 0: 0: 0: 0: 0
740 340 620 770 440 460	Nakuru Mombasa Kisumu Uasin Gisho Masaku	U-1 U-159 U-159 U-52 U-52 U-120 U-166 U-166 U-71	Nainebi Kariobangi Nakuru-town Nakuru-Njoto Monshasa Phase I Mombasa Phase I Kisumu Phase I Kisumu Phase II Eldoret Conventional Eldoret Ponds	Works 42,224,000 9,897,000 7,782,000 6,425,000 0 4,561,000 5,022,000	33,535,000 33,662,000 11,335,000 3,966,000 5,884,000 11,936,000 13,587,000 24,304,000	 	200			- - - -						201		0.0.0.0		3	0 0 0 0 0 0
740 340 620 770 440 460	Nakuru Mombasa Kisumu Uasin Gisho Masaku	U-1 U-159 U-159 U-52 U-52 U-120 U-166 U-166 U-71	Nainebi Kariobangi Nakuru-town Nakuru-Njoto Monshasa Phase I Mombasa Phase I Kisumu Phase I Kisumu Phase II Eldoret Conventional Eldoret Ponds	9,897,000 7,782,000 6,425,000 48,225,000 0 4,551,000 5,022,000	33,662,000 11,335,000 3,966,000 5,884,000 11,936,000 13,587,000 24,304,000	_ _ _ _ _	- - -			- - - -					- ·			0.0.0		-	0 0 0 0
740 340 620 770 440 460	Nakuru Mombasa Kisumu Uasin Gisho Masaku	U-159 U-159 U-52 U-52 U-120 U-120 U-166 U-166 U-71	Nakuru-town Nakuru-Njoro Monthasa Phase I Monthasa Phase II Kisumu Phase II Kisumu Phase II Eldoret Conventional Eldoret Ponds	7,782,000 6,425,000 48,225,000 0 4,561,000 5,022,000	11,335,000 3,966,000 5,884,000 11,936,000 13,587,000 24,304,000	- - - - -				- - - - - -								0.0		-	0 0 0
340 620 770 440 460	Mombasa Kisumu Uasin Gisho Masaku	U-159 U-52 U-52 U-120 U-120 U-166 U-166 U-71	Nakuru-Njoro Monihasa Phase I Mombasa Phase II Kisumu Phase I Kisumu Phase II Eldoret Conventional Eldoret Ponds	6,425,000 48,225,000 0 4,561,000 5,022,000	3,966,000 5,884,000 11,936,000 13,587,000 24,304,000	- 	- - - -		 	 - -			=		 					-	0
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740	Nakucu	U-158	Naïvasha	3,864,000	5,469,000			_1		۵.	_	_]_	_ j				٦	의	-	_[_	_[0
720	Kipsingis	U-148	Kericho	3,441,000	3,978,000	_	_	_	_		٩.	_ _	Ē	1.		_[_	이	_		_ 0
310	Kilifi	U-10	Malindi	2,675,000	4,732,000	_		_	_	_	Ξ.	_ _	.		_	_	_	<u> </u>		_ .	_ 0
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610	Gusii	U-117	Kisii	1,183,000	3,391,000	L_'						1	٩_			_	_	의	_	_ _	_ 0
510	Garissa	U-104	Garissa	2,029,000	4,059,000			_	_					+=		_		<u>o</u>		_[_	0
910	Bungoma	U-199	Bungoma	2,278,000	3,191,000	Ĭ			_		_1.	_F	-1-	1-				0		_1	_ 0
920	Busia	U-206	Busia (South Teso)	1,874,000	3,017,000				_						LI	_[0	_[_[_ 0
730	Laikipia	U-153	Nanyuki	1,009,000	2,249,000			5			+			Ŀ	LI			0	_		C
410	Embu	U-60	Embu	1,233,000	1,443,000	1							F	1	Ħ	-		0			
420	Isiolo	U-63	Isielo	516,000	1,729,000	-	Г	П	_		_[Ē		1		=		0			
710	Kajiado	U-145	Ongata Longai	1,094,000	1,795,000	,	[-			=			+	-	7.7	-	0		Ī	c
230	Maragua	U-20	Maragua	1,078,000	1,768,000	1	i	Ι-,	트				=		r-		_	0		-1	c
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Legend : Feasibility study, datailed design and financial arrangement and pre-construction procdures

: Construction period



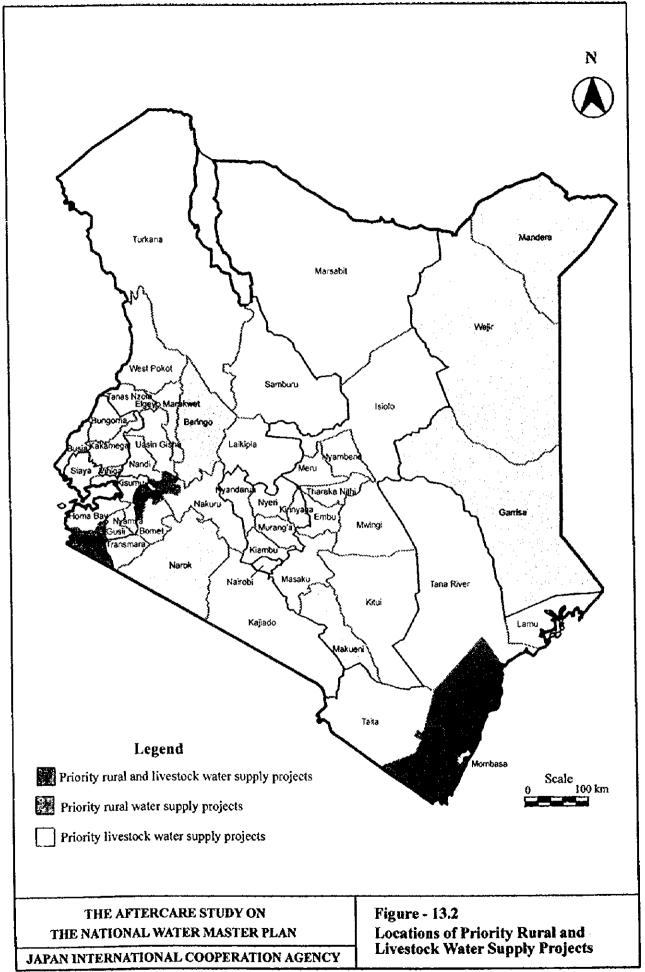
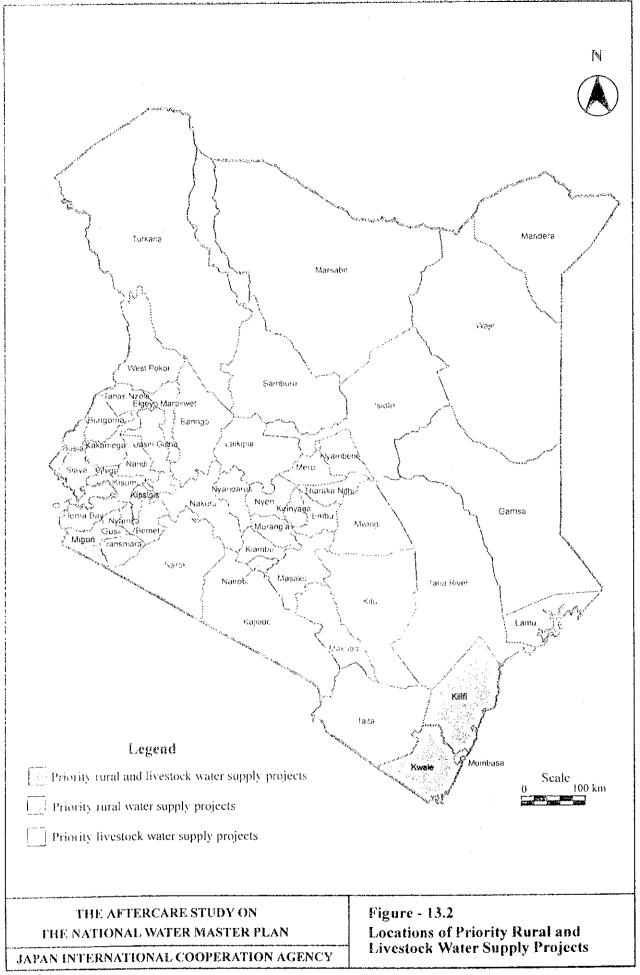


Figure - 14.1 Overall Implementation Schedule

	Area/Projects			Ì	npl	em	enta	atio	n S	che	dul	e		
			20	ю				20	005				20	010
	trengthening Plans for Public Administration, Legislation and inancial Administration													
l L	nprovement in Public Administration						M							
2 A	mendment to Legislation	•	i								_			ļ
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_	mprovement Plans of Operation and Maintenance Systems									L		_		
1 V	Vater Supply O&M Improvement		\neg								_			
1) Establish functional metering system		4						100 1	•				
) Leakage control						ļ		1				-	•
) Customer registration	1 1							-		-	-		
) Other O&M staff training		L W	4	•	B 1		-	5 1					1
) Procurement of water tankers (2 vehicles per province)	11			_	ļ - · -			1	1	1	i	1	Ť
4	Technical Assistance at Districts for implementing the improvement programme	1-1				ļ	i−· L			-	1	1	ļ	ľ
	Sewerage O&M Improvement	1-1			-	-	†-	1		1	Í-		-	-
) Increase revenue in each scheme (obtain funds due from water under taker)	-		_			!		. 1	1 =	 -	- -		
	L) Upgrade staff levels and skills in each scheme					+	-		4 -	1				
	Procure facilities, equipment and tools	11		-	F			.				· · · ·	1	1
1-	Establish preventive maintenance program and standard operating procedures	1-1							-1 -	1	†	1-	1	1
	5) Implement industrial wastewater pre-treatment program	1			<u> </u>	Ļ	Ļ	 		1-		1-	-	1
1	6) Technical Assistance at each facility to implement improvement programme	-			 	 	<u></u>	+	∤ ■	T	Ť		1	-†
	Urban Water Supply Development Plan	+-	-	\vdash	t	†	†	†	十	†		-	士	1
_	1) Rank A Group	1					Ţ	1	-	Τ	Ţ		T	
	2) Rank B Group			1-	F	1	-	-		+	+			
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•	Rural Water Supply Development Plan				İ			1	工	I		Ī	Ţ	_
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5.	Livestock Water Supply Development Plan	+		+	†	1	1	1	Ť	T			1	
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6.	Sewerage Development Plan	+	+	+	+			╛	+	1	+	-†	+	_
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<u> </u>	2) Medium Rank Group 3) Low Rank Group		+	+	+	_	1	1		\exists		<u> </u>		

Legend: # # : On-going actions : Feasibility study, detailed design and financial arragement and pre-econstruction procedures : Construction period for water supply development plan

: Pre-construction stage and construction period



The After one Study on

the National Water Master Plan

