FOREWORD

The 7th Turkana District Development Plan (DDP) for the period 2002-2008 was prepared by the District Departmental Heads of various Ministries under the coordination of the District Commissioner (DC) assisted by the District Development Officer (DDO) and members of the District Planning Team. The Plan is a product of broad-based consultations among various stakeholders undertaken in each of the sixty-nine districts in the country. It has been prepared in the backdrop of the theme of the 9th National Development Plan, which is "Effective Management for Sustainable Economic Growth and Poverty Reduction".

The Turkana DDP articulates medium term policies and objectives, which are further translated into short-term strategies and programmes to be implemented under the Medium Term Expenditure Framework (MTEF). The latter is part of the budgetary reforms undertaken to strengthen the linkage between policy, planning and budgeting.

The Rural Planning Department of the Ministry of Finance and Planning provided the overall guidance through seminars and training workshops and was responsible for the formulation of guidelines, editing and publication of the Plan.

The Plan is divided into four chapters as follows:

Chapter One:

Provides the background description of the district in terms of its area, administrative divisions, main physical features, settlement patterns, as well as a summary of data essential for making informed choices while planning.

Chapter Two:

Provides a review of the performance of the 6th Turkana District Development Plan for the period 1997-2001 and insight into the major development challenges and cross cutting issues to be tackled during the 2002-2008 Plan period.

Chapter Three:

Forms the core of the Plan and is prepared along the lines of the MTEF sectors. It indicates the priorities, strategies and programmes proposed to overcome the constraints identified in Chapter Two. The proposals are in line with the people's aspirations as outlined during the Poverty Reduction Strategy Paper District Consultation Forums.

Chapter Four:

Introduces implementation, monitoring and evaluation mechanisms for the 7th Turkana DDP. It outlines the institutional framework for monitoring and evaluating the implementation of the 7-year Plan, the indicators and instruments to be used and sets out clear roles for all stakeholders.

District Planning is the cornerstone of the District Focus for Rural Development Strategy (DFRD). This strategy is currently being revamped to ensure that an effective bottom up delivery system that facilitates two-way communication between the community and development partners through the administrative hierarchy in the district as well as at the national level is established. In order for this Plan to be more effective than before,

process: from selection, implementation, monitoring and evaluation. However, this requires huge investments in training and capacity building, particularly on participatory methodologies for the communities, and effective delivery of services closer to the people. In this regard, district information systems will be put in place, with District Information and Documentation Centre (DIDC) and District Planning Unit (DPU) playing a central role in the process. This will be actively pursued by the Rural Planning Department through the office of the DDO in collaboration with development partners.

RURAL PLANNING DEPARTMENT MINISTRY OF FINANCE AND PLANNING

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LIST OF ABBREVIATIONS

Acquired Immune Deficiency Syndrome **AIDS** Arid and Semi-Arid Lands ASAL **CAHNs** Community Animal Health Workers **CHWs** Community Health Workers District Adult Education Officer DAEO District Agricultural and Livestock Extension Officer **DALEO DDC** District Development Committee DDO District Development Officer DDO District Development Officer DDP District Development Plan District Education Officer DEO **DFO** District Fisheries Officer District Focus for Rural Development Strategy DFRD **DIDCs** District Information Documentation Centres District Monitoring and Evaluation Committee **DMEC** DPU District Planning Unit DVO District Veterinary Officer **DWE** District Trade Development Officer EIA **Environmental Impact Assessment** Human Immuno-Deficiency Virus HIV **IMCI** Integrated Management of Childhood illness **KTBH** Kenya Top Bar Hive M & E Monitoring and Evaluation **MTEF** Medium Term Expenditure Framework **NFE** Non-Formal Education **NGOs** Non-Governmental Organisations **NPEP** National Poverty Eradication Plan PRA Participatory Rural Appraisal STI Sexual Transmitted Infection

Traditional Birth Attendants

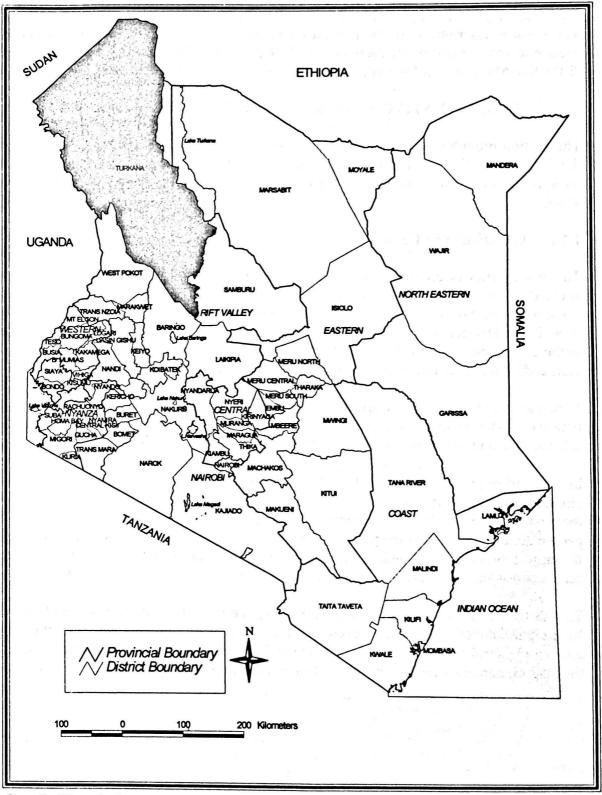
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CHAPTER ONE DISTRICT PROFILE

LOCATION OF TURKANA IN KENYA



Prepared by CBS,1999 Pop.Census

This map is not an authority over administrative boundaries

1.0 INTRODUCTION

This chapter provides a profile of the district in terms of the administrative, geographic and physical description. It also provides a detailed fact sheet on the physical, social and economic infrastructure situation of the district within the context of the plan theme "Effective Management for Sustainable Economic Growth and Poverty Reduction".

1.1 ADMINISTRATIVE, GEOGRAPHIC AND PHYSICAL DESCRIPTION

The section provides details of the district profile and gives background information on the location of the district, the main physical features, settlement patterns and other background information critical to the overall development strategy for the next seven years.

1.1.1 Administrative Boundaries

Turkana District is one of Kenya's ASAL (Arid and Semi Arid Lands) districts. It is situated in the North Western Kenya to the west of Lake Turkana. The district borders Ethiopia to the northeast, Sudan to the northwest, and Uganda to the west, Baringo and West Pokot Districts to the south, Samburu District to the southeast and Marsabit District to the east as indicated on Map No. 1. It is situated between longitudes 34°0' and 36°40' east, and between Latitudes 10°30' and 5°30' north. It is the largest district in Kenya.

Turkana district comprises of seventeen divisions, fifty-six locations and one hundred and fifty six sub-locations. Table 1.1 shows the area of the district by division, locations and sub-location and Map No.2 shows the administrative units of the district.

In terms of population settlement, it should be noted that the Turkana people in normal circumstances settle in the plains. However, due to the dictates of weather, very few of them settle in one place permanently. During and shortly after the rains the Turkana people are concentrated at the plains. However, as the drought starts they move mostly to the high mountain areas and even to neighbouring countries of Uganda and Sudan in search of pasture and water for their livestock.

The district has two local authorities, namely Turkana County Council and Lodwar Municipal Council. There are seventy-two electoral wards in Turkana County Council and six electoral wards in Lodwar Municipal Council. There are three constituencies in the district, namely Turkana North, Central and South respectively.

TURKANA DISTRICT (Administrative Boundaries)

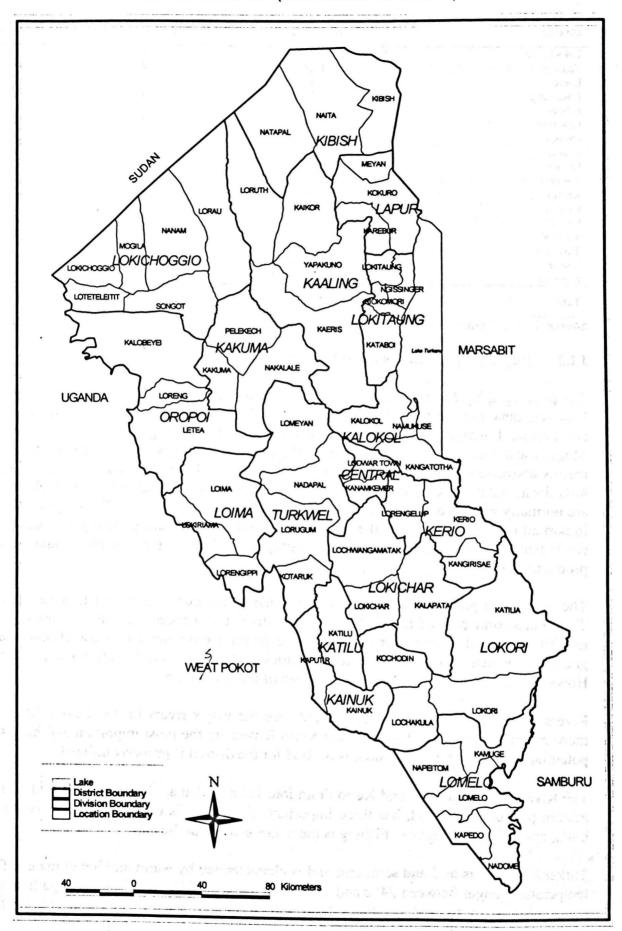


Table 1.1 Area of the District by Division, Location and Sub-Location

Division	Area (Km²)	Locations	Sub- Locations
Lokichogio	9126	6	13
Kaaling	10,830	4	13
Lopur	4652	3	7
Lokitaung	5208	4	11
Kibish	5127	3	7
Lokichar	2913	3	7
Oropoi	5348	3	11
Lokori	5008	4	11
Lomelo	5962	5	9
Katilu	1187	1	4
Kainuk	2504	2	6
Central	2099	2	5
Kerio	2703	3	8
Kalokol	3470	3	8
Turkwell	3093	4	14
Loima	2174	3	12
Kakuma	5596	3	10
Total	77,000	56	156

Source: District Commissioner's Office Lodwar, 2001

1.1.2 Physiographic and Natural Conditions

The physiographic features in the district include low lying open plains, mountain ranges, Lake Turkana and the river drainage patterns. The main mountain ranges of the district are Loima, Lorengippi, Lokwamoru, Lorionotoma, Loriu, Suguta, Silale and Songot, Mogilla and Kailongkol. The altitude of the mountains ranges between 1500 and 1800 metres above sea level in the east reaching the peak at Loima, which forms undulating hills for a stretch of some 65 km². The mountain ranges, because of their high elevation are normally green, covered with dense bushes and high woody cover. The ranges support important economic activities like honey production, grazing during the dry season, water catchments sources, gum arabica harvesting, small rain fed shambas, and wood production.

The open lying plains consist of the Central Plains, Kalapata Plains and Lotikipi Plains. The plains form part of the arid area in the district and receive the lowest amount of rainfall of around 180mm per annum. These plains are dominated by dwarf shrub and grassland, which provide forage for livestock during and shortly after rainy season. However, this forage dries rapidly at the onset of the dry season.

Rivers Kerio, Turkwel, Tarach and Suguta are the major rivers in the district. Most of these rivers are seasonal. Turkwell and Kerio Rivers are the most important and have the potential of producing large amounts of food for the district if properly utilized.

The Rivers Omo, Turkwel and Kerio drain into Lake Turkana. The Lake, situated on the eastern part of the district, has three important islands and is endowed with a variety of birds, crocodiles and hippos. Fishing is the major activity in the lake.

Turkana District is arid and semi arid and is characterized by warm and hot climate. The temperature ranges between 24° c and 38° c with a mean of 30° c. The rainfall pattern and distribution is erratic and unreliable both with time and space. There are two rainfall

seasons. The long rains usually occur between April and July and the short rains between October and November and ranges between 120 mm and 500mm. The driest periods are January, February and September. The rainfall is distributed on an east-west gradient with more rainfall in the western parts and other areas of higher elevation. The rain falls in brief violet storms resulting in flash floods. The surface runoff and potential evaporation rates are extremely high.

Due to the low rainfall and high temperatures there is a lot of evapo-transpiration resulting into deposition of salt in the soil and capping on the surface. As a result, only about 30 per cent of Turkana District's soil can be rated as moderately suitable for agricultural production. These moderately fertile soils are found at the central plains of Lorengippi, the upper Loima, the lowlands of the Turkwel, Nakaton and Kawalathe drainage along the lake at Todonyang plains, the lower Kalokol and Turkwel – Kerio Rivers and a portion of the Loriu Plateaus.

1.1.3 Settlement Patterns

The population density in the district varies from 29 persons per km² in Kakuma Division to 1 person per km² in Kibish Division.

Permanently and semi-permanently settled areas in the district are found along Turkwel and Kerio rivers where irrigated farming is practiced. Along these areas, there exist periurban market centres with the necessary social infrastructures like schools and health facilities that support human settlement.

There is no clear pattern of poverty distribution in the district as the poor and the rich exist side by side especially in the rural areas. Nevertheless most of the poor are found in the northern part and central plains due to recurrent drought and diseases. Cattle rustling from neighbouring countries have worsened the situation.

The poor are also found in the major towns and market centres of the district. They include migrants from other parts of the district in search of relief food and assistance from relatives engaged in productive economic activities in towns and market centres.

Table 1.2 Population Distribution and Density by Division (2002)

Division	Population		Density
Likichogio	38,972		4.3
Kaaling	25,905		2.4
Lapur	13,764		3.0
Lokitaung	24,325		4.7
Kibish	6523		1.3
Lokichar	23,489		8.1
Oropoi	19,408		3.6
Lomelo	6,556		1.1
Katilu	13,514		11.4
Kainuk	12,708		5.1
Central	38,685		18.4
Kerio	16,595		6.1
Kalokol	30,948		8.9
Turkwel	53,722		17.4
Loima	36,595		16.8
Kakuma	104,624	·	18.7
Total	485,627		6.3

Source: District Statistics Office, Lodwar, 2001

1.2 DISTRICT FACT SHEET

The district fact sheet contains an inventory of the district in terms of area, topography and climate, demographic and population profiles, and socio economic indicators. The fact sheet provides the basic information important for the formulation of development strategies and priorities for implementation over the next seven years, to achieve the theme of the Plan of "Effective Management for Sustainable Growth and Poverty Reduction."

Land Area	
Total area	77,000 km ²
Arable land	25,000 km ²
Non-arable land (does not include water mass)	37,440 km ²
Water mass	7,560 km ²
Urban area	7,000 km ²
Topography and Climate	
Attitude Highe	st 1800m above sea level
Rainfall Lowe	
Average annual rainfall	Between 300-400mm
Temperature range Minimum	
Maximur	
Average temperature	30° c
Demographic and Population Profiles	
Population size (2002)	497,779
Total no. of males	247,916
Total no. of females	249,863
Female/male sex ratio	1:1
Population growth rate	3.3%
Population density (average) Persons per km ²	7
Highest density (Kakuma) Persons per km ²	29
Lowest density (Kibish) Persons per km ²	
Primary school going age 6-13	115,989
Secondary school going age 14-17	50,097
abour force (15-64)	264,242

Female in reproductive age (15-49)	124,454
Youth population (15-25)	112,660
Dependency ratio	100:88
Rural population at the start of the plan	428,616
Rural population at the end of the plan	523,135
Urban Population	
Urban population at the start of the plan period	69,163
Urban population at the end of the plan period	83,639
Number of towns with a population of 2,000-10,000	
Kalokol	2,308 (2002); 3,028 (2008)
Kakuma	9,808 (2002); 10,825 (2008)
Crude birth rate	50.3 per 1000
Crude death rate	16 per1000
Under 5 mortality rate	220 per1000
Life expectancy	50
Infant mortality rate	170 per 1000
Total fertility rate	5.5
Literacy rate	60%
Social Economic Indicators	
Total number of households	80,921
Average household size	6
Number of female headed household	5,931
Absolute poverty	333,636 (overall poverty 74%)
Food poverty	365,196 (81%)
Contribution to national poverty	1.2%
Hardcore rural poverty	279,533 (62%)
Average household incomes	277,555 (0270)
Sectoral contribution household income	
Agricultural income (wages)	12.4%
Wage employment	31%
Livestock income	56.6%
	50.076
Agriculture	The second of th
Total number of farms	11,939
Average farm sizes	0.5 acres
Number of irrigation schemes	21
Number of people working in the agricultural sector	77,684
Cattle	176,000
Sheep	813,000
Goats	1,626,000
Donkeys	32,000
Poultry	10,030
Number of people involved in livestock	310,734
Most prevalent livestock diseases	CCPP, CBPP, Rinderpest, Tryps, Anthrax, Worm
	infections
Main type of fish species catch	Tilapia and Nile Perch
Number of fish species	48
Number of commercial fish species	12
Number of people engaged in fisheries sector	58,263
Number of land beaches	8
Main forest products	
Trialii forest products	Construction materials, materials for making domestic goods
Cooperatives	
Number of active cooperatives by type:	
Fishermen	3
Saccos	- i
Agricultural	The second secon
Multipurpose	
Consumer	1
Key cooperatives, which have collapsed in the last 5 years	1
respectatives, which have conlapsed in the last 5 years	Turkana Women Handicraft Cooperative Society Ltd. Katilu Farmers' Cooperative Society

Total Registered Cooperatives Members by Type	207
Saccos	387
Fishermen	4,003
Agricultural	496
Consumer	500
Multipurpose	110
Total	5,496
Total Turnover by Type (Kshs)	
Multipurpose	22,402,424
Saccos	484,917
Fishermen	822,288
Agricultural	278,904
Consumer	Not available
Health	
3 most prevalent diseases	Malaria, respiratory diseases, Diarrhoea diseases,
Doctor/Patient ratio	1:75,000
Childhood diseases	Kwashiorkor, Anemia, marasmus, malaria, diarrhoea,
	measles, eye infections, pneumonia
Number of health facilities	86
Type of health facilities	Hospitals: 5, Dispensaries: 60, Health Centres: 8
	Private clinics: 13
Average distance to nearest health facility	50 km
Number of beds in hospital	990
Number of cots in hospital	43
Education	
Pre-primary	
Number of pre-primary schools	277
Enrolment in pre-primary schools	27,102
Teacher/pupil ratio in pre-primary	1:74
Primary Schools	
Number of primary schools	161
Number of boarding schools	41
Number of enrolled pupils in primary schools	37,483
Enrolment rates in primary schools	33.9%
Drop out rates in primary schools	62.9%
Teacher/Pupil ratio in primary schools	1:40
Average years of school attendance	5
Number of secondary Schools	
Number of secondary schools	8
Enrolment in secondary schools	2,466
Enrolment rate in secondary schools	4.95%
Drop-out rate in secondary schools	24.1%
Teacher/pupils/ratio in secondary	1:23
	1.63
Adult Literacy	162
Number of adult education learning centres	163
Enrolment in adult education learning centres	2,803
Average class attendance	1,488
Number of adult teachers	163
Teacher/Learners ratio	1:11
Tertiary	
Number of other training institutions (e.g. colleges)	3
Children homes for special education	Lokichar RCEA
	Islamic center
	Kalokol Children's Home
	Lodwa Children's Home
The same of the sa	Nadirikonyen Rehabilitation Centre
Vater and Sanitation	
umber of households with access to piped water.	15,334
umber of household with access to potable water	23,000
umber of wells	700
imber of wens	500
inioci di dolendica	

Number of springs	16
Number of major rivers in the district	Turkwel, Kerio, Tarrach, Sunguta
Average distance to nearest potable water point	10 km
	10 km
Energy Sector	
Number of trading centres with electricity	1
Transport Facilities	
Total km of trunk roads (i.e. national roads)	2,853.6 km
Tarmac road total length	470 km
Gravel road total length	366.8 km
Earth road total length	20,16.8 km
Airstrips	22
Communication	
Number of households with telephone connections	76
Number of private and public organizations with telephone connections	Data not available
Number of telephone booths connections	493
Number of people with telephone connections	849
Number of post/sub-post offices	5
Trade, Commerce and Tourism	
Number of trading centres	26
Number of registered business	309
Number of informal sector enterprises	6,243
Number of tourist class hotels	10
Number of tourist attraction sites	3 Turkana Southern Game Reserve and Nasolot Highlands in Lake Turkana Kenyatta House-Lodwar (Lokitung)
Type of wildlife in Southern Turkana Game Reserve	Elephants, buffaloes, zebras, Leopards, cheetah, hyenas, less kudu, dik dik, grand gazelles, jackals and fringe eared onyx
Types of animals in central highlands of Lake Turkana	Crocodiles, hippos, fish and birds
Bank of financial Institutions	
Number of banks	2

CHAPTER TWO

MAJOR DEVELOPMENT CHALLENGES AND CROSS CUTTING ISSUES

2.0 INTRODUCTION TO THE PART OF THE PROPERTY OF THE PART OF THE PA

This chapter discusses the major development challenges and cross cutting issues in the district. It begins by providing a broad overview of the last District Development Plan 1997-2001 and accesses in broad terms whether the expectations of the plan were met. It also analyses the implementation of projects and programmes and attempts to show any achievements, constraints and lessons learnt. The chapter then looks at the linkages between the District Development Plan, the National Development Plan and other policy Papers. Finally, it looks at the major development challenges and cross cutting issues the district is likely to face during the plan implementation period.

2.1 OVER-VIEW OF THE 1997 – 2001 PLAN

During the 1997 – 2001 Plan period, the district's major concern was to mobilise resources and create an enabling environment for the private sector to venture into industrial development. It was envisaged that industrial sector development would have positive spillover effects and stimulate growth in the other sectors. To achieve this goal, the District Development Plan articulated the measure to be undertaken to create an enabling environment for industrial take off. These included measures to:- improve the infrastructure, strengthen security, produce raw materials, develop human resources, protect the environment, improve marketing and to implement the one hundred and twenty eight projects enlisted in the District Development Plan.

At the end of the plan period, very little was achieved in creating an enabling environment for the private sector to contribute towards industrialization of the district. Further, the overall district project implementation status was only 22 per cent. Twenty-eight projects out of the one hundred and twenty eight were implemented to various levels. Most sectors were not funded at all either by the government or other development agencies, while those sectors, which were funded, received funding for only a few of their proposals.

2.2 IMPLEMENTATION OF THE 1997-2001 PLAN

Table 2.1 shows the implementation of the development projects contained in the 1997-2001 DDP by department. The low implementation rate of only 22 per cent as indicated above was as a result of many constraints the district faced during the plan period. These constraints included; insufficient funds, delay in releasing voted funds, piecemeal funding, cash flow problems, freezing of voted funds, low community participation in project management, over-ambitious project proposals, insecurity like cattle rustling, lack of effective monitoring and evaluation system, the 1997 El-Nino, La-Nina and the prolonged 1999 – 2001 drought.

Table 2.1 Implementation Status of the 1997- 2001 Development Projects

Department	No of proposed	during the	No. of projects implemented	% Implementation status (physical and financial)	Total cost	
	Old	New	religio per personal	the second second second		
Livestock Dev.	2	7	2	47%	3.4m	
Veterinary	5	3		40.5%	2.4m	
Agriculture	3	2	3	56.6%	9.1m	
Water Dev.	14	1	11	93.7%	15.7m	
T.R.P	6	4	. 4	14.6%	8.4m	
Education	1	4	0	-		
Fisheries	3	4	1	10%	5m	
Wildlife	2	1	0		-	
Public Works	2	3	4	95%	51.2m	
Commerce/Trade	1	2	1	40%	895.000	
Co-operative	3	0	0			
Development						
Environment and	2	7	0	·	1	
Natural Resources.		1 4 0 5		ALL SHEEKS AND A STATE OF		
Lands and Settlement	7	0	0	-		
Physical Planning			281 111	19 40 10 10		
Survey	•4	0	0			
Health	6	, a g	e varanta e 🕶			
Social Services	2	Ó	0	-		
Adult Education	5.114 1.1 2	1 225 151 3	0	AN E DERETT		
Home Affairs/Nat.	2	3 3	a terment	till to the .		
Her. Prisons Dept	-	3	·			
Probation	1	. 1				
OOP Provincial		7	0	ar with the and in		
Administration	na di	60 11 1 A	•	in a real of 117.		
Police Dept	2	1	*			
	1	1	2	100%		
Reg. of persons		247 1000	11 11 11 11 2	100%	851,630	
Civil Registration	1		<u>Z</u>	10076	651,030	

Source: District Development Office, Lodwar, 2001

The combination of the above constraints has made the situation in the district even worse than it was at the start of the 1997 – 2001 Plan Period. During this period, the physical infrastructure sector, particularly roads were extensively damaged by the El Nino rains. Heavy vehicles transporting famine relief food to the district added to the extensive damage of the roads. Some areas in the district remain inaccessible due to lack of properly maintained all weather roads. The current road network in the district is in a pathetic state and requires urgent rehabilitation and reconstruction.

The agriculture and rural development sector was also affected by low funding, El Nino and the prolonged 1999-2001 droughts. The implementation rate, for example, in the agriculture sub-sector was 56.6 per cent. The drought caused a lot of damage and resulted in the following: reduction in livestock production in terms of meat and milk; high rates of livestock mortality due to lack of pasture and water, and drought related diseases; reduced yields from irrigation schemes and rainfed shambas. This aggravated the food security problem in the district as manifested in increased malnutrition in the district. The groups most affected by malnutrition include children under 5 years, the aged, the lactating and pregnant mothers.

The water sub-sector also experienced difficulties due to drought. The prolonged drought put increased pressure on the available water facilities and quite a number of them broke down while the water table became too low. There is, therefore, need to rehabilitate and restore some of the critical water sources so as to ensure improved access to safe drinking water for domestic pastoralist, agro pastrolist, and their livestock in the district.

The human resource development sector, particularly the education sub-sector, recorded dismal implementation rate. The proposed projects/programmes in the education sub-sector were for the construction of physical facilities and the provision of services. However, none of the proposed physical facilities projects were implemented.

Due to the low implementation rate of development projects/programmes, the mission of the 1997 – 2001 District Development plan was not met. The poor implementation did not augur well for the districts desire to industrialize, reduce poverty, unemployment and other social-economic problems. The district must refocus its efforts to revitalise its economy during the 2002-2008 Plan Period.

2.3 DISTRICT DEVELOPMENT PLAN LINKAGES WITH THE 2002-2008 NATIONAL DEVELOPMENT PLAN AND OTHER POLICY PAPERS

The theme of this district Development Plan is similar to that of the 2002-2008 National Development Plan, that is "Effective Management for Sustainable Growth and Poverty Reduction". This theme is consistent with the long-term National Poverty Eradication Plan (NPEP) 1999-2015. The three basic priorities of NPEP are; improved access to basic services, promotion of broad based economic growth and social integration.

The National Development Plan provides broad macro economic objectives and sectoral priorities. The DDP has attempted to translate these broad objectives and strategies into district specific programmes/projects aimed at achieving sustainable growth and poverty reduction. The DDP has also attempted to integrate district level plans for NGOs, Regional Authorities and Local Authorities. The District Development Plan, therefore, contains projects and programmes that facilitate the realization of the National Development Plan, other Government policy documents and other stakeholders' plans. This will harmonize the implementation of projects and programmes in the district.

2.4 MAJOR DEVELOPMENT CHALLENGES & CROSS-CUTTING ISSUES

The major development challenges that the district will face during the plan period relate to population growth, poverty, HIV/AIDS gender inequality and disaster management. These challenges must be tackled if the district is to achieve the desired level of development during the plan period.

2.4.1 Population Growth

According to the 1999 population and housing census, Turkana District had a population of 450,860 persons in 1999. This population is projected to increase to 497,779 persons in 2002 and to 606,774 persons in 2008. Table 2.2 provides the district population projections by age cohort and sex. As can be noted from the table, the district has a large proportion of young people. The age group 0-24 is estimated to be 337,157 persons or 68 per cent of the total population in 2002. This large youthful population is a reflection of the district's rapid population growth rate estimated at 3.3 per cent. This growth rate is

above the national average of 2.9 per cent.

Table 2.2 Population Projections by Age Cohort and Sex 1999 – 2008

Age	19	1999 2002		20	2004		006		008	
Group	M	F	M	F	M	F	M	F	M	F
0 - 4	29,268		32,314	30,884	34,518	32,991	36,874	35,242	39,389	37,646
5 - 9	37,696	35,169	41,619	38,929	44,458	41,478	47,492	44,308	50,732	47,331
10 - 14	38,088	34,999	42,052	38,641	44,921	41,278	47,986	44,094	51,259	47,102
15 - 19	33,314	28,432	36,781	31,391	39,290	33,533	41,971	35,820	44,834	38,264
20 - 24	20,503	19,844	22,637	21,909	24,181	23,404	25,831	25,001	27,593	26,706
25 - 29	16,212	18,715	17,899	20,663	19,120	22,072	20,425	23,578	21,818	25,187
30 - 34	10,447	14,160	11,534	15,634	12,321	16,700	13,162	17,840	14,060	19,057
35 - 39	9,020	13,471	9,959	14,873	10,638	15,888	11,364	16,972	12,139	18,129
40 - 44	7,647	9,894	8,443	10,924	9,019	11,669	9,634	12,465	10,291	13,315
45 - 49	6,834	8,437	7,545	9,315	8,060	9,951	8,610	10,629	9,197	11,355
50 - 54	5,261	5,619	5,808	6,204	6,205	6,627	6,628	7,079	7,080	7,562
55 - 59	3,780	3,486	4,173	3,849	4,458	4,111	4,762	4,392	5,087	4,693
60 - 64	2,772	2,600	3,060	2,871	3,269	3,066	3,492	3,276	3,731	3,499
65 - 69	1,614	1,613	1,782	1,781	1,904	1,902	2,033	2,032	2,172	2,171
70 - 74	1,114	970	1,230	1,071	1,314	1,144	1,403	1,222	1,499	1,305
75 - 79	486	484	537	534	573	571	612	610	654	651
80+ NS	492	446	543	492	580	526	620	562	662	600
Total	224,548	226,312	247,916	249,863	264,830	266,911	282,899	285,121	302,200	304,574

Source: District statistics Office, Lodwar, 2001

In absolute terms, the population of the district is estimated to increase by about 22 per cent between 2002 and 2008. This increase in the overall population will call for prudent investment in socio-economic sectors in order to support a rapidly growing and youthful population. Currently, the district population is exerting a lot of pressure on the available facilities/resources like food, water, education, employment, health and vegetation. This is manifested by the persistent famine, malnutrition, unemployment, poverty and the inability of the district residents to access basic services such as health and education.

Table 2.2 further shows variations in sex ratio of the population in various age cohorts. The overall female/male sex ratio in 2002 is about 1:1 with female slightly out numbering males. However, variations exists and in some age cohorts where males out number females particularly in age groups 0-24 and 55-80, while women out number males in age groups 25-54.

Table 2.3 shows the population projections for selected age groups. These age groups represent the primary school going age (6-13), secondary school going age (14-17), female population in reproductive age (15-49), the youth (15-25) and the labour force (15-64). Their age groups are selected because they portend special economic and social implications.

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^{*} NS - Age not stated

Table 2.3 Population Projections for Selected Age Groups, 1999 – 2008

Age	1999		2002		20	2004 200		2008		
Group	M	F	M	F	M	F	M	F	M	F
6 - 13	53,090	51,966	58,615	5,7,374	62,614	61,288	66,886	65,470	71,449	69,937
14 - 17	24,069	21,306	26,574	23,523	28,387	25,128	30,324	26,843	32,392	28,674
15 - 25	57,063	52,491	63,001	57,954	67,300	61,908	71,891	66,131	76,796	70,643
15 - 49		112,723		124,454		132,945		142,015		151,704
15 - 64	114,907	124,428	126,865	137,377	135,521	146,750	144,767	156,762	154,644	167,457

Source: District Statistics office, Lodwar, 2001

The population of the primary school going age group (6-13 years) is projected increase from 115,989 persons in 2002 to 141,386 in 2008 while the population of the secondary school age group is expected to increase from 50,097 in 2002 to 61,066 in 2008. Both the primary and secondary school age groups constitute 33.4 per cent of the total population at the start of the 2002-2008 Plan period. This high percentage of school going age population will necessitate investment in learning/teaching facilities, school development, enhancement of the school feeding programme and bursaries

The female population in age bracket of 15-49 is expected to increase from 124,454 in 2002 to 151,704 in 2008. This reproductive age group constitute 25 per cent of the total district population in 2002. This high percentage of the reproductive age may contribute to rapid population growth rate during the plan period if the current high fertility rate of 5.5 is not checked. The implication is that the district must prepare to invest more on maternal child health and early childhood education facilities and family planning services during the plan period.

Labour Force (15-64) of the district is expected to rise from 264,242 in 2002 to 322,101 in 2008. The dependency ratio is 100:88 implying that in every 100 people there are 88 dependents. The high dependency will retard growth of the district economy as resources are diverted to consumption and hence less savings and investment. Furthermore, the majority of the people in the district are engaged in pastoralism, fishing and small business activities, whose returns have been greatly affected by unfavourable climatic conditions and lack of investment resources. The district will, therefore, have to mobilize more resources for investment the in productive sub-sectors so as to create employment opportunities for the labour force.

Population density is relatively higher in Central, Lokichar, Lokitaung, Kakuma, and Lokichogio Divisions. This pattern is influenced by the presence of relatively big urban and market centres within these divisions. These centres are attractive to human settlement because of the existence of relatively good communication networks and the availability of essential services like schools, health facilities and water. The high population in these centres calls for the mobilization of resources to provide for additional water, sanitation and infrastructure facilities. There is also a need for proper market and town planning in the district.

2.4.2 Poverty

Turkana District is one of the poorest districts in the country. According to the 1997 welfare monitoring survey (WMS II), the district recorded an overall poverty of 74 per cent, food poverty of 81 per cent, and hard-core poverty of 62 per cent. In absolute numbers this was equivalent to 333,636 overall poor, 365,196 food poor and 279,533 hard-core poor out of a total population of 485,526

According to district rankings on food poverty among the rural districts, Turkana is the third worst hit, while on overall poverty it is ranked fourth among districts with more than 60 per cent of their population below poverty line. The district is further ranked fourth among districts that have high levels of extreme poor population. The district's contribution to national poverty is 1.2 per cent food poor, 1.1 per cent overall poor and 1.5 per cent hard-core poor. This magnitude of poverty was made even worse by the prolonged drought of 1999-2001 and its devastating impact on all sectors of the economy.

The major causes of poverty in Turkana District are harsh topography and climatic conditions, prevalence of animals and crop diseases, collapse of irrigation schemes, poor marketing systems for agricultural and livestock products, low quality of livestock, lack/poor infrastructure especially roads, unreliable rainfall, lack or inadequate access to credit facilities, illiteracy and ignorance, limited employment opportunities, inadequate/lack of health facilities, large families and lack of access to productive assets, insufficient water supply, insecurity and cattle rustling, and low school enrolment, retention and completion rates.

2.4.3 HIV / AIDS

The HIV/AIDS has spread to most parts of the district and is taking a heavy toll on human life. Available statistics indicate that the most affected areas are the townships along the Kitale-Lodwar Lokichoggio Highway and Kalokol Fishing Centre on Lake Turkana.

The HIV/AIDS statistics shows that an increasing number of people are getting infected with the virus. For example, in 1999 the total number of deaths as a result of HIV/AIDS in Lodwar District Hospital was 314, which rose to 328 in the year 2000. The disease has so far caused substantial loss to the district socially and economically though statistics are not easy to access because of poor records. The impact of HIV/AIDS is manifested through increasing numbers of orphans, rising medical bills and the rising numbers of HIV/AIDS victims occupying hospital beds especially the district hospital. It is estimated that 33 percent of bed occupants in the district hospital are HIV/AIDS patients.

In order to curb the rapid spread of HIV/AIDS, the district has put in place intervention measures like screening of blood for HIV, periodic examination of STI cases and antenatal care on HIV, capacity building, distribution of condoms and supply of STI drugs/treatment. The district is facing many challenges in the process of tackling this pandemic such as slow behavioural change, rising Tuberculosis (T.B.) incidence, high sexually Transmitted Infections (STI) incidence and stigmatisation. Given that there are no drugs to cure the diseases, the district will continue to sensitise the community on the pandemic and emphasize on community based care of the HIV/AIDS victims.

2.4.4 Gender Inequality

Gender issues in development go beyond physical and biological differences between man and women, boys and girls. The gender concerns in Turkana District entails the relative access of sexes to resources as well as the different roles each sex plays in socio economic activities and decision-making. The gender division of labour in the district is mostly defined socially. However, the relative roles are a critical factor to the development and alleviation of poverty in the Turkana District. Though the male-female population is almost equal in number, access and control to resources, gender division of labour and socio-political position and role in decision-making is predominantly the man's affair. All these have implications on the development of the district; women are consigned to do mostly reproductive work while men do the productive work instead of being partners in development.

Decision making on productive property and assets like land, livestock, and cash crop is a man's affair, the females can have access to these properties but they do not have authority on their disposal and the benefits thereof. In education sub-sector, for example there is a bias towards the boy child going to school while the girl child remains at home. Equally girls are taken away from school for early marriage. All these have greatly hindered the development of girl education in the district.

In order to develop this district and hence alleviate poverty, women and men have to be actively involved in designing and promoting their own social projects. To address the bias against women and to lighten the workload, effort will be made to implement projects like water supplies and health facilities, that can reduce the distance walked to access these facilities. Measures will also be taken to channel more micro-credit to small-scale businesses managed by women like broom and basket making.

2.4.5 Disaster Management

Turkana district is prone to two main disasters, namely drought and insecurity. The district experience frequent prolonged spell of drought periods, and its frequency and severity are quite high. High frequency and magnitude of drought place strong limitations on both traditional pastoralism strategies and development potential. In drought years, forage quantity as well as quality becomes limited; livestock starve, nutritional conditions and production decline.

During severe droughts, as experienced in the 1999 – 2000 period, there was heavy loss of livestock due mainly to lack of forage and disease outbreaks. The loss of animal during that period aggravated the poverty problems in the district as milk production fell and animal deaths increased. Drought, further, affected the agro-pastorist in the district, resulting in reduced agricultural production and therefore threatening the food security in the district.

Due to the effects of drought, more resources are diverted to save lives of both human and livestock through the provision of water, relief food, disease control, provision of human health services and food supplements.

To combat the effects of drought in the district, the early warning system will be used more effectively in the formulation of development projects and programmes. The

traditional coping mechanisms like animal mobility to grazing areas; composition of herds (mixer), food storage and preservation will be strengthened in the plan period.

Insecurity is another recurrent problems affecting the Turkana community. Pastoralist communities neighbouring Turkana District have the cultural habits of cattle rustling which have adversely affected the district. During such raids the district suffers a lot in terms of loss of life, loss of property, displacement of families, destruction of infrastructure e.g. schools, health and water facilities, and disruption of education and farming. During the plan period, effort will be made to reduce the insecurity menace in the district through peace harmonization meetings, strengthening the capacity of the security force and stock theft patrols especially at border points.

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CHAPTER THREE

DISTRICT DEVELOPMENT STRATEGIES AND PRIORITIES

3.0 INTRODUCTION

This chapter explores priority areas the district will undertake to achieve the objectives of reduced incidences of poverty and spur economic growth. The chapter gives an in-depth analysis of the status of the six PRSP sectors and make clear cut development strategies that will be implemented in the next seven years to turn around the poor economic status of the district.

3.1 AGRICULTURE AND RURAL DEVELOPMENT

3.1.1 Sector Vision and Mission

The sector vision is "suitable and equitable rural development for all" while the mission is to "contribute to poverty reduction through the promotion of food security, agroindustrial development, trade, water supply, rural employment and sustainable utilization of natural resources".

3.1.2 District Response to Sector Vision and Mission

During the plan period, the sector will improve on food security by expanding the existing irrigation schemes, rehabilitating the water conveyance structures to improve irrigation water efficiency, systematic investigation and design, and improvement of the new small-scale irrigation schemes within the river-line of Turkwel and Kerio to cover 10,000 hectares. The sector will further develop the abundant ground water for irrigation, control crop pests and diseases, improve extension services and conserve the agricultural resources base through protection of the catchments areas and agro-forestry.

The livestock sub-sector will contribute to the attainment of food security, income and employment creation through increased qualitative and quantitative livestock production by breeding, selecting and upgrading the breeds from outside the district i.e. sahiwal cattle, galla goats doper sheep and Somali/Rendile camel. Emphasis will be put on better methods of utilizing rangelands, development of livestock water supplies in both dry and wet grazing zones to reduce long trekking distances, initiating and supporting modern methods of fodder production and conservation especially in irrigation schemes and plains where crops remain unutilised and go to waste and intensify extension service and initiating and supporting modern methods of bee-keeping.

The district will advocate for natural resource conservation and friendly use of the same resource. Training the cooperators and advancing credit will strengthen the co-operative sector.

3.1.3 Importance of the Sector in the District

Turkana District is arid and semi-arid and pastrolism is the main economic activity. The livestock sub-sector is the backbone of the district and is traditionally the single most important source of food and income. The sub-sector is a source of livelihood for over 60 per cent of the district population. Livestock is part and parcel of almost all social interactions, from neighbourhood meat feasts, through ritual uses, the bride wealth to legal compensation. A family therefore, needs stock not only to support itself but also to fulfil social commitments

Agriculture in the district is practised mainly by the agro-pastrolists who form 16 per cent of the total population of the district. This population practices crop production along the Turkwel and Kerio rivers and on arable land within the floods areas. Two types of farming systems, rain fed and irrigation crop production are practised in the district. However, the harvests are normally low and the district therefore relies on food imports from neighbouring districts.

Fishing is also an important activity along the Lakeshore of lake Turkana, where an estimated 12 per cent of the population derive their food and income. Vegetation in the district is vital for wood-fuel, building materials and feeding livestock. Pods and fruits are harvested and collected for fodder and food and also for making basketry and brooms.

3.1.4 Role of Stakeholders in the Sector

The various stakeholders in the sector include the Ministry of Agriculture and Livestock Development, NGOs, Local Authorities, Religious and Civil Organization, and financial institution. The table below indicates the various roles these stakeholders are expected to play for the sector vision and mission to be achieved, during the plan period.

Stakeholder	Role
Ministry of Agriculture and Livestock Development	Provision of technical and extension services;
Book to the state of the state	Provision of inputs.
NGOs	Facilitate the implementation of water, agriculture,
	livestock and environmental activities in their
	jurisdiction.
Local Authorities - Lodwar Municipal Council and	Provision of basic infrastructure and maintenance of
Turkana County Council	roads within their jurisdiction.
Religious and Civic organisations	Training and capacity building;
Banks	Provision of credit.

3.1.5 Sub-sector Priorities, Constraints and Strategies

Sub Sector	Priorities	Constraints	Strategy
Crop Development	Drought resistant crops; Horticulture.	Limited arable land; Lack of rain/water; Pests and diseases; Lack/limited farm input; Inadequate extension services; Low skills by the community on irrigation water management.	Rehabilitate and develop small-scale irrigation schemes; Drill boreholes; Provision of pesticides; Provision of farm inputs; Strengthen the extension services; Carry out community capacity building.
Livestock Development	Increase Livestock production.	Poor animal species; Poor range-land; Inadequate water; Poor livestock marketing systems; Inadequate extension services; Lack/limited bee-keeping equipment; Frequent outbreak of diseases and pests; Limited department capacity.	Upgrade the old livestock species; Put in place better methods on rangeland utilization; Develop livestock water supplies; Streamline livestock marketing; Strengthen extension services; Assist the community to procure KTBHS and honey harvesting accessories and capacity building; Control of livestock diseases pests; Rehabilitate and equip the satellite laboratory; Develop vaccination crushes and village drug stores; Train community animal health

Fisheries	Improve Fish production.	Lack/limited fishing equipment; Poor post harvest fish quality; Limited institutional capacity in the department; Limited community capacity to exploit the existing fish potential.	Construction of boats and procurement of fishing equipment; Community training on post fish harvesting managements; Construction of fish drying racks; Departmental capacity building and strengthen extension services; Community training and financial support.
Forestry	Conservation of forests; Agro-forestry.	Indiscriminate exploitation of forests e.g. charcoal burning; Limited departmental capacity.	Community sensitisation on friendly use of forest; Conserve and start agro-forestry fruit tree nurseries along the irrigation scheme by the community.
Cooperatives	Cooperative management.	Limited institutional capacity; (Illiteracy); Lack of credit.	Capacity building; Community capacity building; Establish credit revolving fund.
Survey	Town planning	Limited/Lack of funds.	Develop a plan for Lokori, Lodwar, Lokichoggio Kainuk and Kakuma.
Physical Survey	Town planning; Morulem survey; District map.	Limited/Lack of funds.	Carry out cadastral survey of plots in Lodwar, Lokichoggio, Lokori; Undertake topo survey of Kakuma and Lokori; Revise district map; Carry out cadastral survey of Morulem irrigation scheme.
Meteorology	Improve collection and dissemination of meteorology information.	Limited/Lack of funds; Inadequate rain gauges and measuring cylinders; Inadequate departmental capacity.	Replace rain gauges and measuring cylinders; Open new rainfall stations; Staff capacity training; Construction of a meteorological station; Procure vehicle and motorcycles.
Environment	Environmental conservation; Water and marine resources conservation; Improvement of energy supply; Improvement of sanitation; Disaster management.	Recurrent droughts/High rate of degradation of natural resources; Limited/Lack of funds.	Mountains and River-line forest conservation; Improvement and initiation of alternative sources of energy supply; Construction of pit latrines; Strengthening of drought monitoring programme; Carry out environmental impact assessment; Carry out an inventory of marine resources.

3.1.6 Project and Programme Priorities

A:. On-going Projects and Programmes: Crop Development

Project Name Location/Division	Objectives	Targets	Description of Activities
Rehabilitation of the Small Scale Irrigation Schemes Kainuk, Katilu, Turkwel, Central, Kerio, Lokori Divisions	To enhance food security among the pastrolists.	Three schemes rehabilitated and expanded per year; Turkwel dam desilted; Eleven boreholes drilled and functional.	Repair and construction of intakes, conveyance structures and division boxes; Desilting canals; Turkwel Dam and drill boreholes.
Provision of Farm Inputs District wide	To enhance food security among the pastrolists.	11,939 farmers provided with farm inputs.	Procurement of maize sorghum, cowpeas, green grams, vegetables (kales, tomatoes, spinach, onions) seeds; Procure tools (Jembes, spades, rakes, pangas, metal karai).

Capacity Building/Extension District wide	Ensure project sustainability.	Undertake 216 PRA trainings sessions for agro- pastoralist farmers.	PRA training workshops and two internal visits conducted.
Pests and Diseases Control District wide	Enhance food security.	680 sumicidin supplied annually.	Purchase of pesticides and chemicals.

B: New Project Proposals: Co-operative Development

Project Name, Location/ Division	Priority	Objectives	Targets	Description of Activities
Credit Scheme District wide	1	Advance credit to cooperatives.	Revolving fund established.	Establish a credit revolving fund. Justification: Currently the credits in operation have limited capital.
Capacity Building for Co- operative Members District wide	2	Improve the management of co-operatives.	Training livestock traders, fish traders and members of Sacco societies.	Conduct management seminars for co- operative members. Justification: To sharpen the managerial skills of co-operators.

A: On-going Projects and Programmes: Livestock Development

Project Name Location/Div	Objectives	Targets	Description of Activities
Livestock Improvement Programme District wide	To improve the quality and yield of livestock	Purchase 1000 dopers; 1000 galla buck rams, and 1000 Somali/Rendile camels	Assist community to purchase high yielding and drought tolerant livestock breeds to upgrade the local sheep, goats, camels & poultry.
Bee-Keeping District wide	Promote and improve bee keeping and production in the district.	Purchase 800 KTBHS; Organize 18 training for bee-keepers; Construct 2 honey refineries.	Assist the community to purchase KTBHS; Training of beekeepers; Construction of honey refinery.
Community Restocking District wide	To promote the livelihood and enables families to have control of their destiny.	1000 families restocked with 30 small stock, one donkey and one camel each.	Identification of destitute families; Purchase & distribution of small stock.
Pasture Reseeding Programme District wide	To improve conservation and vegetation regeneration on otherwise bear ground.	13 water harvesting/spread structures constructed.	Construction of water harvesting/ spread structures for range conservation; Reseeding of degraded bare areas with appropriate grass species mainly lowland areas and along river Turkwel/Tarach.
Livestock Water Development District wide	Promote the nutrition status of livestock.	4 water pans and 10 water troughs constructed.	Construction of water pans and troughs.
Livestock Marketing District wide	Increase the income of the pastoralists and their purchasing power.	Organize and train livestock traders; Support 40 livestock traders financially annually.	Capacity building of livestock traders; Construction of sales yard; Establishment of livestock trading fund.
Disease and Pest Control District wide	Improved health status of livestock in the district.	Eradicate common diseases livestock.	Treatment of sick animals; Vaccination of livestock and control of livestock pests.
Institutional Capacity Building District wide	Improve and expand animal health services delivery.	200 vet-scouts trained.	Training of community animal health workers.
Infrastructure Development District wide	Improve and expand animal health services delivery.	10 mobile crushes established.	Rehabilitation, relocating and construction of crushes.

Equipment for Satellite Laboratory Lodwar	To improve diagnosis and delivery of health services.	Rehabilitate and re- activate veterinary satellite laboratory.	Purchase of laboratory equipment needles, syringes, and grass barrels; Repair of microscopes; Purchase of Laboratory reagents, gas cylinder.
Rural Tannery and Abattoir Okichar, Katilu Lodwar	Improve the quality of livestock products. (meat hides and skin).	Two tanneries and one abattoir constructed.	Establishment of 2 rural tanneries at Lokichar and Katilu; Construction of a medium size abattoir in Lodwar.

B: New Project Proposals: Livestock Development

Project Name Location/Division	Priority Ranking	Objectives	Targets	Description of Activities
Community Animal Drug Stores District wide	1	Improve health delivery services.	4 community drug stores.	Construction of drug stores. Justification: Stockist for veterinary drugs established within the community will increase accessibility of much needed drugs to the Turkana Pastoralists; Create employment and generate income.
Rural Tannery and Abattoir Lokichar, Katilu, Lodwar Divisions	2	Improve the quality of livestock product.	2 tanneries and 1 abattoir.	Establishment of rural tanneries and construction of an abattoir. Justification: The tannery and abattoir will assist in job creation and improve the value of livestock products.

A: On-going Project/Programmes: Fisheries

Project Name, Location/ Division	Objectives	Targets	Description of Activities
Fish Production Kalokol Division	Increase fish production.	Ensure that the fisher folks have adequate fish production and promotion facilities in the third year of the plan; 60 engine boats bought; 60 wooden boats bought; 20 boats rehabilitated; 1,200 gill nets purchased; 3 batches of hooks purchased; 4000 floats purchased; 800 metres of mounting ropes purchased.	Construction of boats; Procurement of nets, hooks and their accessories; Identification of beneficiaries by PRA; Training of beneficiaries; Monitoring and evaluation; Rehabilitation of boats.
Post Fish Harvest Management Kalokol Division.	Improvement of fish quality and consumer appeal of fish products from the western shores of L. Turkana.	2000 racks constructed; 16 fish management training workshops held.	Construction of portable fish drying racks for sun dried fish products; Identification of groups of beneficiaries at the gazetted landing beaches by PRA techniques; Training of fishermen on fish handling procedures.
Institutional Capacity Building District wide	Increasing institution capacity of fisheries department to collect statistics, conduct sampling and enforcement of	4 motorcycle purchased; Reagent for laboratory bought annually; New fiberglass boat procured; One desktop and a Computer purchased;	Purchase of motorcycles; Purchase of laboratory equipment and reagents; Rehabilitation of Kalokol laboratory; Purchase of new fiberglass boat;

to the factor	fisheries legislation.	trained.	Desktop and computer procurement; Staff training.
Capacity Building for Fishermen District wide	Support of organized marketing groups at every fish-landing beach.	8 training sessions for fisherman conducted; 2 groups from 8 landing beaches supported.	Conduct training at the eight gazetted landing beaches; Provision financial support to groups of every landing beach; Market survey and information exchange; Training of groups.

B: New Project Proposals: Rural Water Supply

Project Name,	Priority	Objectives	Target	Description of Activities
Location/Division	Ranking			
Rural Water	1	Make potable	100 community	Community participation in desilting,
Supplies		water supply	wells constructed	sinking and equipping community
District wide		accessible to	and functional;	wells;
		local	40 community	Rehabilitation of wells;
		community in	wells rehabilitated;	Construction of water pans and
		order to	16 water pans	desilting of the existing ones;
		improve health	constructed/rehabil	Construction of sub-surface dams.
		for women,	itated:	Justification:
		men, children	8 sub-surface dams	There is need to provide clean water to
	100	and livestock.	constructed.	the increasing pastoral population and
	1.0			livestock in a cost effective way.
Minor Irrigation	2	To increase	200 ha in four	Community to participate in opening
Schemes	-	crop	irrigation schemes	up small scale irrigation schemes at:
Lokori, Turkwel	1,54	production in	established.	Kangatosa, along Turkwel river
and Kibish	1771	ASAL areas in	Cotabiloneu.	Lokori, Kataruk and Kibish.
Divisions		the district.		Justification:
DIVISIONS		the district.	1	
	Sing X			To assist the local community to learn
	4. 1			farming techniques and produce more
				food for consumption.
Rain Water	3	Raise farming/	Construction of	Community participation through food
Harvesting		Livestock	Trapezoidal semi-	for work in constructing water-
Kakuma, Kibish,		productivity in	circular, contour	harvesting structures at Kakuma,
Lokitaung Divisions	20.00	dry areas and	bunds and micro	Kachoda, Kaeris and Kibish.
		diversify the	catchments.	Justification:
A. 14		economic and	1	To misist the local community to learn.
Part Sallania	4	nutritional base	1.170 811	farming techniques and produce more
		of households.		food for consumption.
Kibish	4	Opening up the	3 boreholes and 15	Sinking of boreholes and shallow
Multipurpose	· · · · · · · · · · · · · · · · · · ·	division for	shallow wells	wells.
Project		faster	sunk.	Justification:
Kibish Division		development.	V	To assist the local community to learn
	100			farming techniques and produce more
		2 2 22		food for consumption.
Livestock	5	Improve	Construct four	Construction of water pans and storage
Improvement		livestock based	water pans and	tanks:
District wide		food security	four storage tanks;	Supplying KTBH and honey
District Hide	1	and household	100 families	harvesting equipment promotion of
9.7 (1.77)	total before 1	income.	supplied with	local poultry.
Total States and the		miconic.	KTBH and honey	Justification:
-	100	*		
THE PERSON NAMED IN	2 2 35		harvesting	Provide clean water and provide and
The problem of a	4. 1. 1. 1. 1.		equipment;	create alternative sources of income
2. 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	- NO 2011 F		Promote local	generating activities.
	5 1 1 1 1 1 1		poultry on a free	
			range.	

A: On-going Projects and Programmes:

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Project Name, Location/Division	Objectives	Targets	Description of Activities
Rural Afforestation	Improve biodiversity.	Plant trees along the riverline and irrigation schemes.	Raise tree nurseries and distribute seedling to farmers and institutions.
Community capacity building	Encourage sustainable use of trees.	Carry out 20 sensitization barazas annually.	Organize community sensitisation meetings.

B: New Project Proposals: Land Administration, Survey and Human Settlement

Project Name	Priority	Objectives	Targets	Description of Activities.
Location/Division Market/Towns Demarcation Lodwar, Lokori, Lokichogio, Kainuk, Kakuma and Katilu Division	Ranking 1	To enable property owner to acquire title deeds.	550 plots planned and issued with title deeds.	To prepare development plan for Lokori, Lodwar, Lokichogio, Kainuk and Kakuma Divisions. Justification: Facilitate issuance of title deeds to the already developed plots. It will
Cadastral Survey of Plots at Lodwar,	2	To enable Land owners acquire	2500 plots to be surveyed.	also facilitate proper planning of the towns. To carry out cadastral survey of developed plots in Lodwar,
Lokichogia and Lokori Divisions		title deeds.		Lokichoggio, Lokori Divisions. Justification: Facilitate issuance of title deeds
*		X4 (25)		to the already developed plots. It will also facilitate proper planning of the towns.
Topo-survey Kakuma and Lokori Divisions	3	To enable planning and facilitate allocation of plots to individuals.	To enable planning of 150 plots.	Undertake topo-survey. Justification: To facilitate the production of new development plans and ensure proper town planning.
District Map	4	To update topo- maps covering Turkana district to reflect new developments.	To update several topo-maps at random.	Map-revision. Justification: To indicate the proper dimension of Turkana District.
Cadastral Survey at Morulem Irrigation Scheme	5	To enable land owners acquire title deeds as security.	Title deeds issued for the whole of Morulem Scheme.	Carry out cadastral survey of Morulem irrigation scheme. Justification: To facilitate the issuance of the title deeds to Morulem scheme.

B: New Project Proposals: Environment

Project Name Location/Division	Priority Ranking	Objectives	Targets	Description of Activities
Environmental Conservational District wide		Increase conservation of forests and water.	80 micro nurseries established; 24 environmental conservation barazas/meetings to be held; 80 sites to be rehabilitated.	Establish micro nurseries along the river-line and irrigation schemes; Hold community conservation barazas. Reseeding of denuded areas. Justification: This will reduce the rate of land degradation in the district.
Rural Water and Marine Resources Management	2	Promote investigation, protection and conservation;	50 water pans constructed; 80 shallow wells	Construction of water pans, shallow wells and earth dams.

District wide		Exploitation and proper use of the	constructed; 80 earth dams	Justification: Assist to document the
1000		district water resources.	constructed.	district water potentials.
Energy Supply	3	Enhance availability	Support	Initiate and promote the use
District wide		and use of alternative	production of	of alternative sources of
		sources of energy and	alternative	energy and energy saving
		energy saving devices.	sources of energy	devices.
		•	e.g. solar and	Justification:
			wind and energy	To exploit the readily
			saving devices.	available energy resource.
Sanitation Programme	4	Promote clean	400 pit latrines	Construction of pit latrines.
District wide	X2007 1	environment.	constructed;	Justification:
			80-health	To prevent disease
			education	outbreaks/promote the use of
			workshop held.	latrines.
Disaster Management	5	Assist mitigate/deter	One remote	Strengthen drought;
District wide		the devastating effect of drought.	sensing software installed NDVI	Early warning system in the district;
		_	images supplied.	Set up a desert monitoring
	nn e			system.
	1 1 2		_	Justification:
	170			Assist mitigates effects of
				drought.
Environmental Impact	6	To ensure that	11 EFAS carried	EIAs to be carried out along
Assessment District		development	out;	irrigation schemes,
wide		programmes/projects	80 EIAs	boreholes;
	5	take into consideration	workshops/baraza	EAIs barazas to be held.
		environment in to	s to be held;	Justification:
	0 674 0	account;	11 land-use plan	The study will assist
	1.40	To enhance public	meetings held.	planners/project managers
		awareness the		and the community to take
	1	importance of linkages	~	into consideration the
		between development		environment when designing
		and land use planning.		and implementing projects.

B: New Project Proposals: Meteorological

Project Name	Priority	Objectives	Targets	Description of Activities
Division/Location Rehabilitation of rainfall Stations District wide	Ranking 1	To rehabilitate all serviceable rainfall station in the district.	3 rain gauges installed and 219 measuring cylinders purchased 3 per	Replace rain gauges and measuring cylinders. Justification: To ensure that the district collects proper weather data and gives proper
Opening of New Stations District wide	2	Increase area of coverage for Rainfall data collection.	station. Five new stations opened; Five rain gauges installed; 15 new measuring supplied.	weather forecast. Open fine new rainfall stations. Justification: To expand weather forecast stations for accurate date information.
Personnel Training Central Division	3	Accurate data collection	156 persons trained; 76 training sessions achieved.	Capacity building through training, training materials and equipment. Justification: Upgrade the skills of weather monitors for proper weather data collection and forecast.
Meteorological Station Lokichogio Division	4	Provide safe landing/take off to aircrafts.	Office/Staff blocks instruments and equipment.	Construction and equipping of a full meteorological station at Lokichogio. Justification: Avoid unnecessary aeroplanes accidents.

Vehicles and Motorbikes Central Division	5	Co-ordination of data collection from Rainfall and Meteorological Stations.	1 four-wheel vehicle and 1 motorcycle procured.	Procurement of a four-wheel drive vehicle and 250cc motor cycle. Justification: To facilitate the mobility of staff members and enhance their work performance.
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3.1.7 Cross-Sector Linkages

For the agriculture and rural development sector to achieve its vision and mission and contribute to the development of the district during the plan period, it will require complementary support from the other sectors. This will include the provision of adequate water supply for irrigation and livestock, passable all weather roads, stable security and labour force. The agriculture and rural development sector performance will influence the growth of trade and industry sector as it is a major source of inputs to the industrial sector. It also generates income for investment in trade and industry.

The income generated from agriculture and rural development sector also influences the purchasing power of the local community thus further enhancing the growth of trade and industry. The growth of education sub-sector would immensely benefit from agriculture and rural development, as the income generated from this sector will assist the community to invest in educational physical facilities and afford the education levies.

The human resources sector provides skilled labour to the agriculture and rural development sector that assist to improve agricultural production.

3.2 PHYSICAL INFRASTRUCTURE

3.2.1 Vision and Mission

For enhanced and sustainable economic growth, the sector will provide physical infrastructure through rehabilitation, improvement and effective management of the existing infrastructure facilities. In the medium term, the sector will focus on measures aimed at improving both quality and quantity of facilities that are likely to generate greater economic impacts in the economy. In the long run, the sector is expected to be a leading input in the country's overall goal of poverty alleviation by providing an efficient network of basic infrastructure such as roads, railways and ports that will stimulate industrial and agricultural development.

3.2.2 District Response to Sector Vision and Mission

To develop the road network during the plan period, the district will concentrate on: routine and periodic maintenance of paved and unpaved roads, construction of new access roads; building of drainage structures, bridges and drifts; bush clearing and periodic maintenance of airstrips.

The water sub-sector will endeavour to provide potable water for both livestock and human consumption through the rehabilitation of broken down water supplies, completion of stalled water supply, drilling and equipping of new bore-holes, construction and equipping shallow wells and sub-surface dams, spring and river

protection and training water users association members in simple maintenance of water supplies.

On energy supply, the district will explore the possibility of extending power supply from Turkwel gorge exploit the use of wind power, solar energy and energy saving appliances.

3.2.3 Importance of the Sector to the District

The physical infrastructure sector plays a very critical role in Turkana District. The road network facilitates the importation of goods and service from the neighbouring districts to cover the deficits such as domestic consumption goods that the district normally faces. The roads also facilitate delivery and marketing of livestock, fish and other goods from the district to the rest of the country. They also facilitate people to access services like health, water and markets.

Turkana District being arid, water is very critical to its development. Good quality and sufficient water is important for domestic purposes, farming and livestock. In specific terms water contributes to the improvement of the health status of the people and increased crops and livestock production. Energy supply is very crucial in food storage due to the high temperature in the district. Business can hardly operate in the district without electricity.

3.2.4 Role of Stakeholders in the Sector

Stakeholder	Role
Ministry of Roads and Public Work.	Construction works and maintenance of classified roads;
Kenya Power and Lighting Company	Maintenance and supply of power and implementation of the rural electrification programme;
Telkom Kenya	Maintain existing telephones lines and extended services to new consumers:
Postal Corporation of Kenya	Offer postal services;
NGOs	Offer training and civic education;
Community	Labour based maintenance of rural access roads.

3.2.5 Sub-Sector Priorities, Constraints and Strategies

Sub-Sector	Priorities	Constraints	Targets
Roads	Improve roads to all	Limited/inadequate road	Road rehabilitation;
	weather conditions;	network;	Opening access roads;
	Improvement of airstrips.	Poor road network;	Maintenance of airstrips.
		Poorly maintained airstrips.	•

Water	To guarantee access to safe	Lack of drilling rig;	Rehabilitation of broken
	potable drinking water;	Inadequate/lack of water;	down water supplies;
	To provide adequate water	Lack of Tara-meter;	To drill and equip
	for livestock and irrigation.	Frequent breakdown of	boreholes;
		water supplies;	Construct shallow wells
		Low capacity of the community to manage	Construct new water supplies;
		water supplies.	Protection of rivers and springs;
			Construct sub-surface dams;
	- 1, "	V. F. Santana	Community Capacity building on water supply
		1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	management;
		* · · · · · · · · · · · · · · · · · · ·	Procure 1 drilling rig and 1 Tara meter.
Energy	Alternative energy supply;	Limited sources of energy;	Extension of hydro-power
Zinerg)	Rural electrification	Inadequate/lack of energy	from Turkwel Gorge;
	programme.	supply in the district.	Exploit wind power;
	F0		Exploit solar energy use;
	ž.		Encourage use of energy
			saving devices.

3.2.6 Project and Programme Priorities

A: On-going Projects: Major Water Works and Sanitation

Project Name, Location/Division	Objectives	Targets	Description of Activities
Lokitaung Water Supply Lokitaung Division	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 6,000 people and 20,000 livestock.	Replace destroyed pipelines, provide dosing facility and construct two watering troughs.
Kalokol Community Water Supply (Kadokorinyang) Kalokol Division	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 3,400 people and 10,000 livestock.	Augment supply by rehabilitating source, rising main, construct 150m ² masonry tank, replace 200m electric cable and purchase gen-set.
Kerio Water Supply	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 2,000 people and 4,000 livestock.	Relocate the water source by drilling replacement borehole and provide components connected thereto.
Kokuro Water Supply	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 5,000 people 5,000 livestock.	Provide 24m³ steel elevated tank.
Namuruputh Water Supply	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 2,500 people and 12,000 livestock.	Replace windmill with generator; Set a submersible pump, repair of 100m³ masonry tank and lay extension lines.
Lorokon Water Supply	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 1,500 people and 1,000 livestock.	Purchase floating pump C/W panel, construct pump house and relocate rising main.
Kibish Water Supply Kibish Division	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 4,500 people and 1,000 livestock.	Replace 50m³ steel elevated tank, segment distribution lines and provides for CWPCs.
Lorugum Water Supply	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 3,200 people and 20,000 livestock.	River bank protection and augmentation of supply by laying extension to distribution mains and construction of two water kiosks.

Kainuk Water Supply Kainuk Division	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 2,500 people and 14,000 livestock.	Provide 100m's steel elevated tank and extension of reticulation system 2" GI/UPVC 4 km long.
Lokichar Water Supply Lokichar Division	To guarantee access to safe drinking water for human and livestock use.	Access clean water to 2,000 people and 4,000 livestock.	Drill borehole to 60m depth and equip with pumping unit, lay rising main 2 km long and construct pump house.

B: New Project Proposals: Major Water works and Sanitation

Project Name Location/Division	Priority Ranking	Objectives	Targets	Description of Activities
Makutano Water Supply	1	To guarantee access to safe potable drinking water for both human and livestock.	Available enough water to 1,500 people and 1,200 livestock.	Lay rising main 14 km long, construct 100m³ masonry tank, install reticulation system and provide pumping unit. Justification: To provide clean, safe ground drinking water for livestock and human consumption who have no alternative within a reasonable distance.
Todonyang Water	2	To guarantee access to safe	Access clean	Drill borehole and equip with
Supply		potable drinking water for both human and livestock.	water to 1,000 people and 20,000 livestock.	appropriate pump and provide reticulation system. Justification: To provide clean, safe ground drinking water for livestock and human consumption who have no alternative source of accessing water within a reasonable distance.
Kalemunyang Water	3	To guarantee	Provide clean	Drill borehole to depth of 60 m and
Project		access to safe potable drinking water for both human and livestock.	water to 1,200 people and 1,000 livestock.	equip with suitable pumping unit; Erect 50m³ steel elevated tank and provide requisite accessories for reticulation system. Justification: To provide clean, safe ground drinking water for livestock and human consumption who have no alternative source of accessing
Lokichoggio Water Project Lokichogio Division	4	To guarantee access to safe potable drinking water for both human and livestock.	Provide clean water to 5,000 people and 15,000 livestock.	water within a reasonable distance. Drill borehole 50 m deep and equip with appropriate pumping unit, erect 100m³ steel elevated tank and provide requisite mains for community. Justification: To provide clean, safe ground drinking water for livestock and human consumption who have no alternative source of accessing water within a reasonable distance.
Kaloboi Water Project		To guarantee access to safe potable drinking water for both human and livestock.	Avail enough quality water for 3,000 people and 15,000 livestock.	Drill borehole to at least 60m deep and equip with appropriate Hand pump. Justification: To provide clean, safe ground drinking water for livestock and human consumption that have no alternative source of accessing water within a reasonable distance.

Veteruk Weter	6	To guarantee	Avail water for	Drill borehole and equip with Hand
Kataruk Water Project		access to safe potable drinking water for both human and livestock.	4,000 people and 40, 000 livestock.	pump provide water trough. Justification: To provide clean, safe ground drinking water for livestock and human consumption that have no alternative source of accessing water within a reasonable distance.
Riet Water Project	7	To guarantee access to safe potable drinking water for both human and livestock.	8,000 people and 40,000 livestock to access enough water.	Drill borehole to at least 80m deep and provide appropriate Hand pump together with reticulation system. Justification: To provide clean, safe ground drinking water for livestock and human consumption that have no alternative source of accessing water within a reasonable distance.
Kangirisae Water Project	8	To guarantee access to safe potable drinking water for both human and livestock.	Benefit 3,500 people and 30,000 livestock herds.	Drill borehole to at least 60m deep C/W apt. Hand pump and reticulation system. Justification: To provide clean, safe ground drinking water for livestock and human consumption that have no alternative source of accessing water within a reasonable distance.
Nadukamel (Upper Tiya) Water Project	9	To guarantee access to safe potable drinking water for both human and livestock.	Access water to 4,000 people and 20,000 livestock.	Drill borehole and a fix apt pumping unit. Justification: To provide clean, safe ground drinking water for livestock and human consumption that have no alternative source of accessing water within a reasonable distance.
Lochremoit Water Project	10	To guarantee access to safe potable drinking water for both human and livestock.	Accesses water to 5,000 people and 10,000 livestock.	Establish conventional water supply system. Justification: To provide clean, safe ground drinking water for livestock and human consumption that have no alternative source of accessing water within a reasonable distance.
Namukuse Water Project	11	To guarantee access to safe potable drinking water for both human and livestock.	Access water to 2,000 people and 11,000 livestock.	Drill boreholes to depth of 60m and equip with appropriate pumping unit, erect 50 m³ elevated steel tank and install reticulation system as necessary. Justification: To provide clean, safe ground drinking water for livestock and human consumption that have no alternative source of accessing water within a reasonable distance.
Kapus Water Project	12	To guarantee access to safe potable drinking water for both human and livestock.	Access water to 2,000 people and 11,000 livestock.	Drill borehole and equip it with appropriate pumping unit. Justification: To provide clean, safe ground drinking water for livestock and human consumption that have no alternative source of accessing water within a reasonable distance.

1 0				
Construct Water	13	To guarantee	Medium size 11	Carry out civil works of pan
Pans	17.7	accesses to enough	pans constructed.	construction of capacity 11600m3.
Lorengesinyen, Riet,	17 30 7	water for		Justification:
Nana, Lokitipi Plans,	2 1 1	Livestock watering		Provide clean water to an
Mogilla, Songot,	15.5	and other uses		increasing number of people and
Kokurotuko,	and the second	other than human		livestock.
Lokiriama	74 74.2	drinking.		
Lorengippi				
Kalemunyang				
Development and	14	To guarantee	Develop and	Execute civil works in
Protection of Springs		accesses and	protect 15	development and protection of
Kibish Division		enough water for	springs.	springs
Lomoruedome,	2 " 4 2	Livestock watering		Justification:
Koyasa,		and other uses	- 1	To ensure continuous water flow.
Nangolemoru,		other than human		
Lotaruk,		drinking.		
Lokamarinyang,	QC*			
Kaleng Lorumor,				
Loruth, Iomanakipi,		-2.7		
Lomelo Division				
Lorusio Lokori				
Division Tegeit,				
Lokichar Division				
Lochwangamatak,	W 1 - 1			
Lokitaung Division	1 e e e			
Natoo Katilu				
Division Naoyanga				
Kerio Division Kerio	To the			
Loima Division		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Lokiriama				
Shallow Well	15	To guarantee	Sink and equip 38	Sinking of shallow wells and
Programme		accesses to enough	shallow wells.	equipping them with hand pumps.
South Kaputiro,		water for		Justification:
Loitanit,		Livestock watering		Provide clean and safe drinking
Karubangorok,		3	1	I Tovide cicali alid sale dilliking
	1	and other uses		water.
Kibish, Kangarok,			22	1
Kibish, Kangarok, Kibish,		and other uses		1
Kibish, Kangarok, Kibish, Lokamarinyang,		and other uses other than human	(C)	1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nadoto, Nakurio,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nádoto, Nakurio, Kalemunyang,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nádoto, Nakurio, Kalemunyang, Lorengippi,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nádoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nadoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima, Nakatian,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nádoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima, Nakatian, Lochor- aikeny,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nadoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima, Nakatian, Lochor- aikeny, Lorengelup North		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nadoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima, Nakatian, Lochor- aikeny, Lorengelup North Lokapel, Katilu,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nadoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima, Nakatian, Lochor- aikeny, Lorengelup North		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nadoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima, Nakatian, Lochor- aikeny, Lorengelup North Lokapel, Katilu, Juluk, Kapeliobok, Lokichar,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nadoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima, Nakatian, Lochor- aikeny, Lorengelup North Lokapel, Katilu, Juluk, Kapeliobok,		and other uses other than human		1
Kibish, Kangarok, Kibish, Lokamarinyang, loyoro, Nasachaburi, Kechunyuk, Nakwaperit, Narengoi, Oropoi, Lokichoggio, Nakapelieoi Central Kotela, Nasura, Lokipo, Kerio, Nadoto, Nakurio, Kalemunyang, Lorengippi, Lokiriam, Loima, Nakatian, Lochor- aikeny, Lorengelup North Lokapel, Katilu, Juluk, Kapeliobok, Lokichar,		and other uses other than human		1

Community Management Committees Training Programme District wide		Impart operation and management skills in the communities in running water supplies and protecting conserving water resources as outlined in Sessional paper No. 1 of 1999 on national Policy on water resources management and development.	30 management committees trained.	Mobilize communities to elect management committees and organize training workshops for them. Justification: To ensure water supply sustainability.	
Pump Maintenance Unit Project	17	Guarantee access to fast moving spares for repair of hand pumps.	One store constructed and stocked at the water office	Construct store and stock with spares for all hand pumps in the district. Justification: Offer standby spares.	
Drilling and Tarameter	18	Guarantee access to fast moving spares for repair of hand pumps.	Purchase one drilling and one tarameter.	Purchase one drilling and one Tara-meter. Justification: Currently there are no such machines in the district and to access one from other areas is cumbersome.	

A: On-going Projects and Programmes: Roads

Project Name Location/Division	Objectives	Targets	Description of Activities
Kainuk- Nakabosan RDAI	Facilitate transport of goods, services and people.	66km of road to be reconstructed.	Road reconstruction.
Lodwar- Nakabosan	Facilitate transport of goods, services and people.	120 km of road to be resealed.	Road resealing.
Lokori Kapeddo	Facilitate transport of goods, services and people.	134 km to be gravelled.	Road graveling.
Namorutunga box culvert	Facilitate transport of goods, services and people.	1 box culvert to be constructed.	Construction of box culvert.
Lodware-Kolokol 60km (RD D348)	Facilitate transport of goods, services and people.	60 km to be of road resealed.	Road resealing.
Drifts Lokichar (RD AI) Kachoda (RD C47)	Facilitate transport of goods, services and people.	2 Drifts to be reconstructed.	Road reconstructed.
Kakuma-Lokichogio	Facilitate transport of goods, services and people.	120 km of road to be repaired and resealed.	Repair and resealing.
Lodwar - Makutano	Facilitate transport of goods, services and people.	70 km of road to be resealed.	Resealing.

B: New Project Proposals: Roads

Project Name Location/Division	Priority Ranking	Objectives	Targets	Description of Activities
Kakuma-Kaikor		Facilitate transport of goods, services and people	126 km road to be graded.	Road grading. Justification: The area is inaccessible and hence to make it reachable and facilitate service delivery in livestock and human health, trade and commerce.

B: New Projects Proposals:

Project Name Location/Division	Priority Ranking	Objective	Targets	Description of Activities
Rural Electrification Programme		To enhance business activities in the Periurban areas of Lodwar Town.	Supply power to Kawalathe Kanamkemer Nakwamekwi Napeter.	Construct and erect electricity power lines to the peri-urban areas of Lodwar Town. Justification: Supply of electricity in these areas will promote social and economic development.

Energy

3.2.7 Cross Sector linkages

The Physical Infrastructure sector will greatly facilitate the growth of the district economy by enhancing transportation of inputs and outputs for development purposes in various parts of the district.

Adequate and good transportation network will help rejuvenate trade within the district and neighbouring districts while adequate energy supply will boost the growth of trade, industry and facilitate the production of various goods and services. Effective delivery of essential services like health, livestock vaccination campaigns, and security depend on adequate and passable roads. The production of crops and livestock in Turkana District squarely depends on this sector through the supply of water.

3.3 TOURISM, TRADE AND INDUSTRY

3.3.1 Vision and Mission

The sector vision and mission are "contributing to the socio-economic development of the country through facilitation of an enabling environment for sustainable growth and promotion of trade, industry, tourism and regional integration with a view to improving the welfare of all Kenyans."

3.3.2 District Response to Sector Vision and Mission

To enhance business activities in the district, during the plan period, business management training will be intensified, while small-scale loans will be advanced to the businessmen. The district wills also endeavour to encourage the initiation and support of small-scale industries such as modern slaughterhouse, tannery, leather works and brick making.

Tourism development in the district will be promoted through the development of infrastructure activities such as access roads, gates and water at both Turkana South game Reserve and Nasolot Game Reserve. Furthermore, water and fish sporting and expeditions on river Omo will be encouraged and supported. The existing lodge at lake Turkana will be rehabilitated and a lodge will be constructed at Southern Turkana Game Reserve to facilitate the promotion of tourism.

3.3.3 Importance of the Sector in the District

The Tourism, Trade and Industry Sector is not well established in most parts of the district. However, the trade sub-sector is fairly established and contributes to development of the district by facilitating the community to access essential services such as consumption domestic goods. It is through trade that the district access goods and services from other parts of the country. At the same time the district is able to sell its livestock, fish, artefacts, mats baskets and wood fuel for consumers inside and outside the district.

In the district about 8 per cent of the people are engaged in small-scale business like selling charcoal, fuel wood, hawking, small-scale business and other Jua-Kali activities.

3.3.4 Role of Stakeholders in the District

Stakeholder	Role
Local Authorities – Turkana County Council.	Collect revenue from commercial ventures, promote tourism related activities and planning of urban centres; Provision of basic infrastructure and collection of garbage.
Banks	Provide banking services; and provision of credit.
Department of Trade and Industry.	Training of entrepreneurs on business skills, provides loans to the business community, encourage investments
	in industrial ventures and provide relevant business
	information to the local entrepreneurs.
NGOs	Training and mobilizing of local communities.



3.3.5 Sub-sector Priorities, Constraints and Targets

Sub sector	Priorities	Constraints	Strategies
Tourism	Infrastructure development in potential tourism sites.	Inaccessibility; Geographical location of the districts; Insecurity.	Development of infrastructure.
Trade, commerce and Industry	Empowerment of the small-scale entrepreneurs.	Limited credit facilities; Limited managerial skills by entrepreneurs.	Training on business management; Provision of small-scale loans to businessmen

3.3.6 Project and Programme Priorities

A: On-going Projects and Programmes: Trade

Project Name, Location/Division	Objectives	Targets	Description of Activities
Capacity Building	To empower the small-scale entrepreneurs on business management.	To train 340 small-scale entrepreneurs on business management skills annually.	Training on business management.
Credit Scheme	To enhance the working capital of the small scale entrepreneur/traders	50 small-scale traders advanced with credit loans annually.	Advance credit to small-scale businesses.

3.3.7 Cross Sector Linkages

Tourism, Trade and Industry Sector is closely linked to the Physical Infrastructure Sector. The infrastructure sector facilitates the transportation of goods and services from one part of the district to the other thus enabling the people to have access to both consumption and production goods.

Good and passable road network influence tourism activities. The public administration, safety, law and order provided by the Provincial Administration ensures that peace and harmony exist for tourism, trade and industrial activities to be implemented. The Information, Communication Technology Sector facilitates the growth of Tourism, Trade, and Industry Sector through advertisement on TV, radio and Internet.

3.4 HUMAN RESOURCES DEVELOPMENT

3.4.1 Vision and Mission

The sector vision is "to achieve sustainable development and utilization of human resources in order to attain better quality of life for all Kenyans". The mission of the sector is "achievement of greater levels of human resources development through improved human capabilities, effective human power utilization and social-cultural enhancement".

3.4.2 District Response to Sector Vision and Mission

During the seven years plan period, the district will endeavour to produce quality labour force. On education, the district resources will be invested in the improvement/provision of teaching and learning facilities such as classrooms, water and sanitation, desks, mattresses, beds, sheets, blankets, mosquito nets, textbooks, solar panels and pressure lamps. Efforts will also be made to intensify advocacy, social mobilization and community sensitisation on education, provide educational bursaries and enhance the school-feeding programme.

On the health sub-sector the district will concentrate on expanded immunization, reduction of prevalent diseases and reduction the spread of HIV/AIDS. Additional health facilitates will be provided, mobile clinical services, health education, intensified and adequate drug supply provided. Furthermore, efforts will be made to ensure that adequate health staffs are posted to all the health facilities in the district.

The adult education sub-sector will channel its resources to provide teaching and learning facilities, assist the community start additional learners classes, community mobilization and sensitisation and departmental capacity building.

3.4.3 Importance of the Sector in the District

The human resource development sector is key to the development of the labour force of the district. It provides all other sectors with skilled, healthy and well-trained labour-force thus offering effective service. The education sub-sector trains and produces quality labour force for the various professions. A well-educated population has the capacity for innovative approach to development. The level of business management and the maximizing of returns are determined by the quality of labour force. The education sub-sector therefore plays a key role in determining economic growth.

The health and nutrition sub-sector ensures that the health condition of the workforce and the work environment is conducive by putting in place effective health strategies. The sector controls all the epidemics, which threaten the human race. The human resources development sector empowers the people to make well-articulated judgment and decisions.

3.4.4 Role of Stakeholders in the District

Stakeholder	Role
Ministry of Education	Provision of teachers, supervising and inspecting education institutions;
Ministry of Health	Provide education to the public on disease prevention and health promotion; Provide health facilities with equipment and staff;
NGOs	Promote home based care for aids patients; Provision of textbooks and physical facilities to schools, support children from poor families with fees and uniform:
Arid Lands resources Management Programme Social Services Department	Provision of textbooks and physical facilities to schools; Mobilise communities and provide training.

3.4.5 Sub-sector Priorities, Constraints and Strategies

Sub Sector	Priorities	Constraints	Strategies
Health and Nutrition	Improve the health status of the people.	Inadequate health facilities; Inaccessible health facilities; Inadequate drug supply; Limited mobile clinical services; Rapid spread of HIV.	Immunization campaign; Expand mobile health services Preventive and curative health services; Health education; Expansion of health facilities; Reduce the spread of HIV/AIDS.
Education and Training	Improvement of education standard in the district; Improve enrolment, retention and completion rates.	Inadequate teaching and learning facilities; Negative parental altitude towards education; Early marriages particularly for girls; Inability of parents to meet educational levies; Inaccessibility to educational facilities; Lack of guidance and counselling; Inhibiting cultural practices;	Provision of learning and teaching facilitates; Provision of bursaries to needy students; Enhancement of school feeding programme; Community sensitisation.
Adult Education	Improve literacy levels of adults and the youth out of school.	Lack of parental care. Lack of learning and teaching materials; Limited capacity of the teaching staff;	Recruitment of teaching staff Sensitisation of the community on adult education; Assist the community to start
		Nomadic life style; Low attitude towards education.	additional learning centres; Provision of learning materials Training/re-fresher courses for the teaching staff; Capacity building of the department.

3.4.6 Project and Programme Priorities

A: On-going Project: Education and Training

Project Name, Location/Division	Objectives	Targets	Description of Activities
School Bursaries District wide	Improve retention and completion rate in schools.	80% of bright students advanced with bursaries.	Provision of bursaries to bright students.
Learning and Teaching Facilities District wide	Enhance enrolment, retention and completion rates in schools.	277 pre-primary; 161 primary; 8 secondary schools to be assisted.	Assist the community to provide teaching and learning facilities.
Community Mobilization and Sensitization District wide	To enhance enrolment retention and completion rates in schools.	Carry out 50 sensitisation meetings.	To sensitise the community on the importance of education.
School Feeding Programme District wide	To improve the enrolment, retention and completion rates in schools.	To provide three course meal in 42 boarding schools.	To enhance school feeding programme.
Institutional Capacity Building District wide	Enhance the management of schools and education in the district.	161 teachers and 50 administrators earmarked for training.	Hold school management seminars for head teachers and education administration.

B: New Project Proposals: Education and Training

Project Name Location/Division	Priority Ranking	Objectives	Targets	Description of Activities
Kalokol A.I.C Kalokol Division	1	Expand education facilities to cater for the increasing demand.	Construct the school to completion.	Construct the school. Justification: The demand for secondary education is increasing rapidly to the extent that the current number of secondary schools in the district cannot cope.
Lokichoggio A.I.C Moi Secondary School Lokichogio Division	2	Expand education facilities to cater for the increasing demand.	Construct the school to completion; % of completion of the project.	Construct the school. Justification: The demand for secondary education is increasing rapidly to the extent that the current number of secondary schools in the district cannot cope.
Lokichar Secondary School Lokichogio Division	3	Expand education facilities to cater for the increasing demand	Construct the school to completion.	Construct the school. Justification: The demand for secondary education is increasing rapidly to the extent that the current number of secondary schools in the district cannot cope.
Songat Secondary School	4	Expand education facilities to cater for the increasing demand.	Construct the school to completion.	Construct the school. Justification: The demand for secondary education is increasing rapidly to the extent that the current number of secondary schools in the district cannot cope.

B: New Project Proposals: Adult Education

Project Name Location/Division	Priority Ranking	Objectives	Targets	Description of Activities
Training and Retraining of Teachers District wide	1	Strengthen the teaching staff.	100 new full time teachers employed; 19 existing teachers; 105 part-time teachers; 100 new teachers; NGO teachers trained.	Employ additional adult teachers; Train both old and new teachers. Justification: To strengthen delivery of services.
Learning and Teaching Facilities District wide	2	Access teaching/ Learning resources at DAEO and AEO's office.	100 new and 163 existing centres equipped.	Equip offices with enough teaching/learning materials. Justification: Assist create conducive working atmosphere.
Motor Vehicle Motorbikes Central Division		Improve supervision and monitoring of the Adult Education Programme.	One vehicle and 5 motorbikes.	Purchase/provide one vehicle, 5 motor-bikes (Yamaha 175 CC for supervisors). Justification: To ensure effective supervision of learning and teaching.
Capacity Building of the Community and Teachers District wide	4	To strengthen non- formal education in the district.	Hold barazas at the catchments areas; 120 NFE teachers trained; All NFE centres	Sensitisation of the community on NFE Training NFE teachers and procurement of teaching materials.

100 may 100 ma	\$ 4. \$ ₀ *	and the state of	provided with teaching aids.	Justification: This will assist the community to appreciate the importance of Adult Education.
Mobile Classes District wide	5	Increase the number of mobile classes in the purely nomadic areas of the district.	10 mobile classes to be established.	Establish 10 mobile adult classes. Justification: To ensure that majority of people attend adult classes.
Provision of Office Equipments and Repair of Offices District wide	6	Provide good and spacious working environment.	4 division offices; Repair, paint and equip the DAEO's office with photocopy machine, electrical typewriter, fans, steel cabinet, tables chairs and duplicating machines.	Assist the community build and equip divisional offices; Renovate and equip DAEO's office. Justification: To assist create conducive working atmosphere.

A: On-going Projects and Programmes: Health and Nutrition

Project Name Location/Division	Objectives	Targets	Description of Activities
HIV/AIDS/TB Control District wide	Reduce HIV transmission; Improve care for PLWA; Reduce TB load on the community.	Reduce HIV transmission by 30 per cent; Increase TB treatment centres from the current 5 – 10.	Community sensitisation campaigns; Condom distribution; Train health workers, counsellors, teachers, on STI/HIV/AIDS/TB control; Establish Voluntary Counselling Centres; Strengthen blood donor services; Establish more TB treatment centres.
Malaria Control Programme District wide	Reduce malaria morbidity and mortality.	Reduction of malaria related morbidity and mortality by 40 per cent.	Promote community health education and the sectoral collaboration in malaria control; Promote use of insecticides and treated nets; Promote proper treatment and management of malaria patients.
Water and Sanitation District wide	Improved sanitation and water supply systems.	Percentage of households with access to safe water and use of latrines to be increased.	Sensitise community on safe drinking water; Management of communal water resources, and use of latrines; Train health workers on HACCP sampling and inspection techniques; Train food handlers on hygienic food management.
Expanded Programme and Immunization District wide	Improved immunization rate.	Increase immunization rate from 40 per cent to 80 per cent.	Train 130 health workers and sensitise community on EPI services; Immunization campaigns Procure 40 EPI refrigerators.
Lodwar School of Nursing Central Division	Complete on-going project.	Complete all the outstanding works.	Construction of road works and parking; Purchase fire fighting equipment; Construction a high-level water tank.
Lokitaung Sub-District Hospital	Complete on-going project.	Complete all the outstanding works.	Complete finishes and installation of electrical works.

Til Disserance	Complete on-going	Complete finishes	Complete finishes, plumbing,
Kibish Dispensary		painting, doors;	
Kibishi Division	project.	Drill borehole;	paining doors; Drill shallow well
		Fencing and septic	
			Construct septic tank;
		tank.	Fencing.
Kapeto Dispensary	Improve accessibility	Dispensary completed.	Construction of dispensary.
	of health services.		
Kangakipur	Improve accessibility	Project completion.	Construction of health facility.
Tungan p	of health services.		
Kokuro	Improve accessibility	Project completion.	Construction of health facility.
Kokulo	of health services.		•
Hydatid Control	Promote community	Reduce hydatid	Community sensitisation on
Programme	based hydatid control	incidence from 25 to	hydatid control;
District wide	mechanisms;	4%.	Treat dogs, sterilize female dogs
District wide	Improve management		and destroy infected carcases;
	of hydatid patients.		Treatment of hydrated patients.
I Management of	Improve management	Under 5 mortality rate	Training of health workers and
Integrated Management of	of childhood illnesses.	will reduce from 170	community on IMCI.
Childhood Illnesses	of childhood fillesses.	to 120 per 10,000 by	constitutity on tivici.
District wide		2008.	
	Durali the surle of	Prevalence of	Community consists at an analysis
Intestinal Worms Control	Break the cycle of		Community sensitisation on worm
District wide	worm transmission.	intestinal worms	control;
		reduced by 50 per	Conduct targeted de-worming
		cent.	campaigns.
Community Capacity	Improve access of	Increase health	Training of CHWs and TBAs
Building	health services by the	coverage from 50per	(1260).
District wide	community.	cent to 80 per cent.	

B: New Project Proposals: Health Nutrition

Project Name Location/Division	Priority Ranking	Objectives	Targets	Description of Activities
Lokangae Dispensary	1	Access health services to the people.	1 dispensary block; 3 staff houses, 1 borehole and 3 latrines constructed.	Construct dispensary block, 3 staff houses water supply and latrines. Justification: It is a settled area, highly populated with no nearby health facility.
Nakeret Dispensary	2	Access health services to the people.	1 dispensary block; 3 staff houses, 1 borehole and 3 latrines constructed.	Construct dispensary block, 3 staff houses water supply and latrines. Justification: It is a settled area, highly populated with no nearby health facility.
Lomeyan Dispensary	3	Access health services to the people.	1 dispensary block; 3 staff houses 1 borehole and 3 latrines constructed.	Construct dispensary block, 3 staff houses water supply and latrines. Justification: It is a settled area, highly populated with no nearby health facility.
Kapua Dispensary	4	Access health services to the people.	1 dispensary block; 3 staff houses, 1 borehole and 3 latrines constructed.	Construct dispensary block, 3 staff houses water supply and latrines. Justification: It is a settled area, highly populated with no nearby health facility.
Kamagus Dispensary	5 Let gif	Access health services to the people.	1 dispensary block; 3 staff houses, 1 borehole and 3 latrines constructed.	Construct dispensary block, 3 staff houses water supply and latrines. Justification:

8 12	2 20 1	, , , x =		It is a settled area, highly populated with no nearby health facility.
Makutano Dispensary	6	Access health services to the people.	1 dispensary block; 3 staff houses, 1 borehole and 3 latrines constructed.	Construct dispensary block, 3 staff houses water supply and latrines. Justification: It is a settled area, highly populated with no nearby health facility.
Naorus Dispensary	7	Access health services to the people.	1 dispensary block; 3 staff house, 1 of borehole and 3 latrines constructed.	Construct dispensary block, 3 staff houses, water supply and latrines. Justification: It is a settled area, highly populated with no nearby health facility.
Kaikor Health Centre	8	Improve access of health services by the community.	1 health centre block; 3 staff houses, 1 borehole and 3 latrines.	Construction health centre block, 3 staff houses water supply and latrines. Justification: It is a settled area, highly populated with no nearby health facility.
Male Ward at Lodwar District Hospital Central Division	9	Improved inpatient management.	Male ward constructed.	Construction of male wards. Justification: The old men ward has been condemned and currently the male patients are squeezed in one tiny room.
Amenity Ward at Lodwar District Hospital Central Division	10	Increase inpatient facilities.	Amenity ward constructed.	Construction of amenity ward. Justification: Provide more inpatient space and increase the revenue to the hospital.
Communication Radios District wide	11	Improve communication network for timely responses.	20 health facilities equipped with radio set systems.	Procurement and distribution of radio communication equipments. Justification: To ensure quick responses to emergency cases.
Cold Chain Fridges and Solar Panels and Battery Set District wide	12	To raise the immunization rate from 40 per cent to 80 per cent.	6 panel completed; 6 fridges.	Acquisition of cold chain facilities. Justification: To assist improved expanded immunization programme.
Microscopes District wide	13	Enhance lab detection e.g. malaria.	4 microscopes.	Purchase light microscopes. Justification: Improve diagnosis of Malaria cases at the dispensary and health centres.

3.4.7 Cross Sector Linkages

The performance of the Human Resources Development Sector is closely linked to the performance of the other sectors mainly Agriculture and Rural Development, and Tourism, Trade and Industry, sectors. These two sectors provide employment opportunities to the labour force in the district.

Public administration, safety law and order sector also plays a crucial role by creating a peaceful working environment for the Human Resource Development Sector to undertake its projects and programmes. To improve the education standard in terms of facilities, the

Tourism, Trade and Industry sector will have to generate more income for investment in these facilities.

The local community will participate in all the sectors of the economy in order to generate enough income for consumption and saving for investment in other production activities.

3.5 INFORMATION COMMUNICATION TECHNOLOGY

3.5.1 Sector Vision and Mission

The sector vision is "for Kenya to be at the forefront in Africa in the use of Information and Communication Technology (ICT) to improve the quality of life and competencies," while the mission is "to promote and enable the society by developing a National Information Infrastructure (NII) and skills for all Kenyans regardless of geographical or socio-economic status".

3.5.2 District Response to Sector Vision and Mission

During the plan period, the district will focus on strengthening and improving communication, which at the moment is poorly functioning. The main areas of concern will be to, strengthen the existing radio booster for better reception, install a television booster in the district, modernize the existing telephone for better reception, purchase one TV camera for recording development programmes, purchase one mobile cinema unit to stage development in the district, establish a local newspaper to be published weekly, start GIS at the DIDC for the development of a data bank, purchase a 4 WD vehicle fitted with coda radio for information office and a mobile telephone facility fitted in the information vehicle.

3.5.3 Importance of the sector in the district

Information Communication Technology is very important for the development of the district. It's through communication on electronic media that important information such as the spread of HIV/AIDS can reach the majority of people. Trade and commerce can easily be facilitated through TV, Internet, radio and newspapers advertisement. Through the media important national and international events occurrences like new research discoveries and inventions are accessed. Information for quick decision-making and action is easily made through fax, e-mail and courier services.

3.5.4 Roles of stakeholders in the sector

Stakeholder	Role
Government	Provide policy on ICT and guidelines;
Private Sector	Train the public on ICT and provide commercial internet
the second of th	access.
Ministry of Finance and Planning	Establish and make operational District Information and
	Documentation Centres.
NGOs	Information System;
	Provide technical support.

3.5.5 Sub-sector Priorities, Constraints and Strategies

Sub-sector	Priorities	Constraints	Strategies
ICT	Establish project data	Lack of machinery and	Purchase of
	bank and GIS in DIDC.	equipment;	Equipment;
	Capacity building.	Lack of trained	Organize training
		personnel.	sessions.

3.5.6 Project and Programme Priorities

B: New Project Proposals: ICT

Project Name Location/ Division	Priority Ranking	Objectives	Targets	Description of Activities
Databank/GIS Central Division	1 ·	Collection, storage and dissemination of information for project planning and implementation, monitoring and evaluation.	Adequate equipment; machines and materials procured.	Purchase of equipment/machinery. Justification: Assist improves planning by availing the much-needed data and other relevant information.
Capacity Building District wide	2	Empower officers.	Train 400 officers.	Organize training. Justification: Equip officer with necessary skills for efficient delivery to clients.

3.5.7 Cross Sector Linkages

The Information Communications Technology sector will facilitate project planning and implementation by various sectors of the economy by dissemination of relevant information. Furthermore, other sectors should fully support the initiative to make the DIDC fully functional as an information reference centre.

The private sector will play a major role in ICT investment for the sector to achieve its mission and vision. This will include investing in IT services and training the various, stakeholders in the application of the technology.

The Human Resource sector through the education sub-sector will facilitate the introduction and growth of IT training that all levels of the local learning institutions.

3.6 PUBLIC ADMINSTRATION, SAFETY, LAW AND ORDER

3.6.1 Sector Vision and Mission

The vision of the sector is "prudent management and governance in order to maximize the welfare of all Kenyans"; while the mission is "to promote socio-economic and politically stable development of the country through the provision of administration, efficient management of fiscal policies, ensuring overall macro-economic stability and the creation of an enabling environment for economic growth and development.

3.6.2 District Response to Sector Vision and Mission

In order to create conducive working environment for development to take place peace and stability must prevail. Peace and stability in the district can be guaranteed by holding harmonization meetings within and beyond the district boundary. The police security force will be strengthened to effectively contain the insecurity menace in the district by providing communication facilities and vehicles, establishment of security outposts' troubled areas and opening up security roads.

3.6.3 Importance of the Sector in the District

Provincial administration plays a key role in the maintenance of law and order in the district. The security force endeavours to ensure that law and order is maintained in the district for meaningful development to take place. Protection of people and their property is a prerequisite for development and economic growth. Public Administration, Safety Law and Order will articulate government policies in various areas and coordinate their implementation. Furthermore, this sector will coordinate and oversee the implementation of projects and programmes in the district.

The two local authorities, Turakana County council and Lodwar Municipal Council provide infrastructure services to the community by construction of facilities such as nursery schools, slaughter houses, social halls and livestock sale yards thereby offering employment to the community.

3.6.4 Role of Stakeholders

Stakeholder	Role
Provincial Administration	Law enforcement, mobilization of public and chairing
	development committee meeting.
Judiciary	Ensures that justice is carried out.
Prisons Department	Keeping custody of convicts and remands prisoners.
Civil Registration Department	Registering of birth and deaths in the district.
Registration Department	Registration of Kenyans who have attained 18 years and
	issuing them with identification cards.

3.6.5 Sub-sector Priorities, Constraints and Strategies

Sub-sector	Priorities	Constraints	Strategies
Provincial Administration	Maintenance of Law and Order.	Lack of security; Communication gadgets; Lack/inadequate transport (vehicles); Lack/inadequate security roads.	Hold peace harmonization meetings internally and externally; Procure effective communication gadgets for the security force; Provide adequate serviceable vehicles to the security force; Strengthen KPR force; Carry out community sensitisation on security matters; Establish security outposts.
Provincial Administration	HIV/AIDS.	Rapid spread of HIV/Aids; No cure for HIV/Aids; Stigmatisation of HIV/Aids victims; Slow attitude change.	Community sensitisation; Distribution of condoms; Treatment of STI/STDS; Screening of blood; Establish Village Counselling Centres.
District Planning Units	Complete stalled projects.	Lack of funds.	Complete the project.

Development Planning	Training in PRA, M and E.	Inadequate trained officers.	Organize PRA training Hold PRA at the community and the district level.
DIDC	Provide equipment.	Poorly functioning DIDC; Lack of equipments.	Equip the DIDC.

3.6.6 Project and Programme Priorities

A: On-going Projects: Provincial Administration

Project Name Location Division	Objectives	Targets	Description of Activities
Internal and External Peace Meetings District wide	Create conducive and enabling environment for development.	20 peace meetings held annually.	Hold 20 peace meetings per year (Internal and external).
Institutional Capacity Building of the Security Force District wide	Create conducive and enabling environment for development.	5 posts opened; 20 communication gadgets bought; 4 land rovers purchased; 200km of security roads opened; Security early warning system institutionalized.	Establish security outpost at trouble spot areas; Procure effective communication gadgets/systems for the security force; Provide adequate and serviceable vehicles to the security force; Open up security roads; Set up early warning security systems.
Develop M & E System	Strengthen planning M and E	All projects and Programmes in the district.	To develop M and E system for the district.
DIDC Equipment Central Division	Strengthen planning	To equip the DIDC with computers and other accessories.	Purchase DIDC Machineries and equipment.
HIV/AIDS District wide	Reduce the spread of HIV/AIDS	Hold Barazas/seminars.	Organise/barazas, trainings and distribute condoms.
District Planning Unit. Central Division	Complete stalled project.	Complete plastering, electrical works, plumbing, doors, and windows.	Construct the project to completion.

B: Project Proposals: Development Planning

Project Name Division/Location	Priority Ranking	Objectives,	Targets	Description of Activities.
M and E System District wide	1 	Strengthen planning M and E.	M & E. Institutionalised.	To develop M and E system for the district. Justification: To ensure timely and transparency in project implementation.
Training on PRA District wide	2 Jahren	Strengthen planning M and E.	To train 600 participants during the plan period. These will be 4 trainings per year.	Train all heads of departments and development committees on PRA, project management M and E. Justification: To equip officer and communities with planning skills.
DIDC Equipment Central Division	3	Strengthen planning.	To equip the DIDC with computers and other accessories.	Purchase DIDC Machineries and equipment. Justification: To store, and disseminate information/date for planning.

B: New Project Proposals: Local Government

Project Name	Priority	Objectives	Targets	Donat
Location/Division	Ranking	To create employment	Committee	Description of Activities
Slaughter House Central Division		and raise the revenue base of the council.	Construction of slaughterhouses at Lodwar.	Construction of 1 slaughterhouse. Justification: Currently the town been
Guest Houses Kainuk, Kalokol, Kakuma Division	2	To raise the revenue base of the council and offer accommodation.	Construct 3 rental houses.	dissent slaughterhouse. Construction of Guesthouses. Justification: To offer accommodation and raise the revenue to the council
Boreholes District wide	3	Provision of clean potable water	Drill boreholes	Drilling of boreholes. Justification: To ensure that water is within the reasonable distance.
Sewerage Exhauster	4	To ensure cleanliness of market and town centres.	Procure one exhauster.	Purchase of sewerage exhauster. Justification: Currently there is no exhauster in the district and when in need the same is hired from Pokot.
Turkana South Game Reserve	5	Promote wildlife activities at the Reserve.	Construction of infrastructure.	Construction of Infrastructure SWG as access roads, gates water supply. Justification: To create conducive environment for the tourist.
Social Halls Lokichoggio, Kakuma Lokichar, Lorugum	6	To offer conducive environment for social events.	Construction of four social halls.	Construct of social halls. Justification: There are no social facilities in these towns.
Sale yard, Kibish Division	7	Facilitate livestock off-take.	1 (one sale yard constructed).	Construction of livestock sale yard. Justification: Assist/Promote livestock marketing.
Nursery schools Nachukui, Lorugum Namoruputh, Kakuma Nakalale	8	Encourage and promote school development.	Five Pre-Primary schools established.	Development of nursery schools. Justification: Promote the level of education in the district/current there are no such facilities in these areas.
Market Stalls Kakuma, Lokichoggio Divisions	9	Facilitate small-scale business.	Two market stalls.	Construction of market stalls. Justification: To offer conducive selling/marketing facilities to the businessmen.

3.6.7 Cross Sector Linkages

Public Administration, Safety, Law and Order Sector is very crucial for development activities to take place at any place. The sector endeavours to ensure peace and stability prevails so that an enabling environment is created for the other players in the economy.

For peace to prevail cooperation and collaboration by all sectors is a must. The provincial administration sub-sector will coordinate and ensure that government policies are understood and implemented.

Agriculture and Rural Development Sector will require security for the farmers/pastorists to engage all their energy to livestock and farming activities. The Human Resource Development and Physical infrastructure Sectors require coordinated effort, planning, implementation and monitoring for their projects and programme to be successfully implemented. The public Administration, safety, law and order sector require inputs from the other sector, such as well maintained road network, reliable water supply, manpower, among other to achieve its mission and vision.

CHAPTER FOUR MONITORING AND EVALUATION

4.0 INTRODUCTION

This chapter focuses on the Monitoring and Evaluation (M & E) of projects and programmes set out in Chapter Three. The purpose of M & E is to ensure that implementation of these projects and programmes is on schedule while ensuring that there is no deviation towards the realization of the project objectives. The chapter further presents hierarchical institutional framework, which will be adapted to carryout M & E, ensuring the involvement of all stakeholders in the exercise.

4.1 INSTITUTIONAL FRAMEWORK FOR MONITORING AND EVALUATION SYSTEM IN THE DISTRICT

One of the major problems experienced during the 1997-2001 Plan period was the lack of a proper monitoring and evaluation guidelines. The implementation of projects was hardly monitored; as funds were not allocated for this exercise, save for project progress reports tabled in the DDC/DEC. This method of monitoring proved counterproductive as in most cases reports tabled in development forums were not accurate and could only be verified through field visits by constituted committees. There is therefore, need to allocate adequate funds for monitoring and evaluation during the plan period.

During the 2002-2008 Plan period, monitoring will be carried out continually while evaluation will be done periodically. Implementers will place a leading role in both monitoring and internal evaluation. The District Monitoring and Evaluation Committee (DMEC) with members drawn from various stakeholders will be charged with the responsibility of monitoring and evaluation of all development projects/programmes in the district so as to ensure faster implementation and high completion rates.

The Divisional Monitoring and evaluation Committee (Div. M & E C) composed of the District Officer, Divisional Departmental Heads, NGOs representatives, donor agencies and other stakeholders will execute monitoring and evaluation of projects and programmes at the divisional level. Monitoring will be done on quarterly basis through field visits. Subsequent reports will be placed before the Divisional Development Committee for perusal, discussion, adoption, intervention and submission to the District Development Committee.

Monitoring and evaluation at the community (village, sub locational, locational) level will be the onus of the respective project committees basing their assessment on the project plans. While monitoring will be a continuous process, evaluation will be done in the mid term and at the end of the plan period in 2008.

4.2 IMPLEMENTATION, MONITORING AND EVALUATION MATRIX

Sectoral projects, monitoring indicators and instruments that will be used to carry out the M & E are presented in the following matrix.

4.2.1 Agriculture And Rural Development

Project Name	Cost Kshs	Time Frame	Monitoring Indicators	Monitoring Tools	Implementin g Agency	Stakeholders Responsibilities
Rehabilitation of the Small Scale Irrigation Schemes	175 M.	2002 - 2007	No. of structures rehabilitated; Turkwel dam desilted; No. of boreholes drilled; Acreage under irrigation.	DALEO report; DDC/DEC minutes.	DALEO	Funding; Implementation.
Provision of Farm Inputs	12 M.	2002-2007	No. of farmers provided with seeds; No. of farmers practicing farming.	DALEO reports; DDC/DEC minutes	DALEO	Funding; Implementation.
Capacity Building/ Extension	7 M.	2002- 2007	No. of PRA training sessions held; No. of farmers trained; No. of implants and equipment purchased and distributed to farmers.	DALEO reports; DDC/DEC minutes.	DALEO	Funding Implementation.
Pests and Diseases Control	0.8 M.	2002- 2007	Amount of chemicals purchased annually; No. of Livestock treated and acreage of crops sprayed.	DALEO reports; DDC/DEC minutes.	DALEO	Funding; Implementation.
Livestock Improvement	33 M.	2002- 2008	No. of animals purchased.	Community reports; LSP reports DALEO reports; DDC/DEC minutes.	DALEO	Funding; Implementation.
Bee-Keeping	4 M.	2000- 2007	No of training sessions for farmers held; No. of KTBHs given; Kg of honey refined.	Community reports; LSP reports; DALEO reports; DDC/DEC minutes.	DALEO	Funding.

Community Restocking	50 M.	2002- 2006	No. of families restocked.	Community reports; LSP reports; DALEO reports; DDC/DEC minutes.	DALEO	Funding; Implementation.
Pasture Restocking Programme	186.5 M.	2002-2007	Area under vegetation cover increased livestock productivity.	Community reports; LSP reports; DALEO reports; DDC/DEC minutes.	DALEO	Funding.
Livestock Water Development	7 M.	2002- 2006	Number of water pans and troughs constructed; Average km Travelled to the livestock point.	Community reports; LSP reports; DALEO Reports; DDC/DEC minutes.	DALEO	Funding.
Livestock Marketing	7.85 M.	2002- 2006	Number of livestock traders supported; Livestock sales.	Community reports; LSP reports; DALEO reports; DDC/DEC minutes.	DALEO	Funding; Expertise.
Livestock Disease and Pest Control	9,824,500	2002- 2008	No. of animals vaccinated and treated.	LSP reports	DVO	Funding; Expertise.
Capacity Building	4 Million		No. of trained CAHWs	DVO reports	DVO	Implementation Funding.
Infrastructure Development	5 M.	2002- 2006	crushes constructed; 4 drug stores constructed.	DEC/DDC Minutes.	DVO	Funding; Expertise.
Veterinary Equipment	515,000	2002- 2004	50DHZ purchased; 40 di-zone glass purchased; 800 syringes purchased; 4 microscopes purchased; No. of reagents	DVO reports; Community reports; LSP reports.	DVO	Implementing Funding
Rural Tannery and Abattoir	3.2 M.	2002-2007	bought. Tanneries constructed; Sales of hides and skin.	DVO reports; community reports; LSP reports.	DVO	Implementing; Funding; Expertise.
Fish Production	957,000	2002- 2006	No. of boats repaired; No. of boats constructed; No. of ropes provided.	DDC/DEC minutes; DFO reports; NGOs reports; LSP reports.	DALEO (Department of . Fisheries).	Funding Implementation; Expertise.

Post Fish Harvest Management	2.3 M.	2002- 2006	No. of training sessions held and fisher forks trained; No. of racks constructed	DDC/DEC minutes; DFO reports; DALEO reports; LSP reports.	DALEO (Department of Fisheries).	Funding; Expertise.
Institutional Capacity Building	2.15 M.	2002-2007	No. of motorbikes bought; No. of reagent bought annually; Fiber glass bought and available; Laboratory in use; Extension services strengthened.	DDC/DEC minutes; DFO reports; DALEO reports; LSP reports.	DALEO (Department of Fisheries).	Funding; Implementing; Expertise.
Capacity Building for Fishermen	4 M.	2002-2007	No. of training sessions conducted and fisher folks trained; No. of groups of fisher farmers supported financially.	DDC/ DEC minutes; DFO reports; DALEO reports; LSP reports.	DALEO (Department of Fisheries)	Funding; Expertise.
Rural Water Supplies	65 M.	2002-2006	No. of shallow wells disilted, sunk and equipped; No. of shallow wells rehabilitated; No. of water pans dislted; No. of Subsurface schemes at Kangatosa, Lokorokol, Kataruk and Kibish.	TRP Reports; DWE reports; DDC/DEC minutes.	TRP	Funding, Implementing, Expertise.
Rain Water Harvesting	5 M.	2002-2006	No. of water harvesting structures ;constructed; Availability of water at short walking distance.	TRP reports; DWE reports DDC/DEC minutes	TRP	Funding; Implementation; Expertise.
Kibish Multipurpose Project	16.5 M	2002- 2006	No. of boreholes sunk; No. of shallow well sunk; No. of water structures Average distance to the water point.	TRP reports; DWE Reports; DDC/DEC minutes.	TRP	Funding; Implementation; Expertise

Livestock Improvement	11 M.	2002- 2007	No. of water pans and	TRP reports;	TRP	Funding; Implementation.
ampio venient			storage tanks constructed; No. of families supplied with KTBHS bright	DLPO reports.		implementation.
			and supplied; Improved no. at free ranges.	î - 1		
Minor Irrigation Schemes	10 M.	2002-2007	Functional micro- irrigation schemes at Kangatosa, Lokoroko/Kata -ruk and Kibish.	TRP reports	TRP	Funding Implementation
Credit Scheme	4 M.	2002- 2007	No. of marketing societies advanced with credit.	DDC/DEC minutes; Marketing cooperative reports; DCO reports.	DCO	Funding.
Capacity Building for Co- operative Members	2 M.	2002- 2005	No. of training sessions and held; No. of cooperatives trained.	DDC/DEC minutes; Marketing cooperative reports; DCO reports.	DCO	Training; Funding.
Market and Town Demarcation at Lower, Lokori, Lokichoggio, Kainuk, Kakuma and Katilu	1.5 M.	2002- 2007	No. of plots demarcated; PDP drawing; Title Deeds issued; Survey maps.	Surveys reports; LMC reports/ minutes; TCC report/ minutes.	DCO	Funding; Expertise.
Cadastral survey of Plots at Lower, Lokori and Lokichoggio	0.8 M.	2002- 2007	No. of cadastral surveys undertaken; No. of title deeds issued.	LMC and TCC meeting minutes; DPPO annual reports.	DPPO	Funding; Expertise; Implementation.
Topo Survey of Plots at Kakuma and Lokori	0.6 M.	2002- 2007	No. of top surveys undertaken; Survey maps.	DDC/DEC minutes; DPPO reports.	DPPO	Funding; Expertise; Implementation.
District Map	0.2 M.	2002- 2007	District map updated; Contract documents.	DDC/DEC Minutes.	DPPO	Funding; Expertise; Implementation.
Cadastral Survey of Morulem Irrigation Scheme	0.3 M.	2002- 2007	Title deed for morulem irrigation scheme issued.	DDC/DEC Minutes; Council reports; DPPO reports.	DPPO	Funding; Expertise; Implementation.
Environmental Conservation	1.4 M.	2002- 2007	No. of meetings and people trained; No. of water	DECO reports; DFI reports;	DECO	Funding; Implementation; Expertise.

	1		pans constructed; No. of springs protected; No. of tree nurseries started.	DWE reports; DDC/DEC minutes.		× ×
Rural Water and Marine Resource Management	0.6 M.	2002-2006	No. of shallow Wells, earth dams constructed.	DECO reports DWE reports	DECO	Funding; Implementation; Expertise
Energy	0.4 M.	2002- 2007	% increase in demand for energy serving devices.	DECO reports; Training; reports.	DECO	Funding; Implementation; Expertise.
Sanitation Improvement	0.2 M.	2002- 2006	No. of pit latrines constructed; No. of workshops held.	DECO Reports; Training; Reports;	DECO	Funding; Implementation; Expertise.
Disaster Management	0.5 M.	2002- 2008	No. of disaster mitigation projects implemented.	DECO reports; ALRMP reports.	DECO	Funding; Implentation
Environmental impact Assessment	0.4 M.	2002- 2007	No. of EIAs Carried pit -E.	DECO Report (EIA).	DECO	Funding raising; Expertise.
Rehabilitate All Serviceable Station in the District	123,000	2002-2005	No. of rain gauges and cylinders improved.	MOC report.	мотс	Mobilization of funds; Expertise.
Increase Area of Coverage for Rainfall Data Collection	85,000	2002- 2007	No. of new weather stations opened.	MOTC report.	мотс	Mobilization of funds; Expertise.
Institutional Capacity Building	3.5 M.	2002- 2007	3 Vehicles purchased; 1 motor cycle purchased.	MOTC report.	MOTO	Provision of transport; Expertise.
Construction of Meteorological Station at Lokichogio	12 M.	2002- 2007	Weather station constructed in Lokichogio.	MOTC report.	мотс	Provision of funds; Implementation of project; Expertise.
Rural Afforestation	2 M.	2002- 2007	Area of acreage planted with trees; No. of seedlings distributed.	DFO report; DDC/DEC minutes.	DFO	Finding; Implementation.
Community capacity building	1 M.	2002- 2007	No. of meetings held; No. of people trained.	DFO reports; DDC/DEC minutes.	DFO	Funding; Implementation.

4.2.2 Physical Infrastructure

Project Name	Cost Kshs.	Time Frame	Monitoring Indicators	Monitoring Tools	Implementing Agency	Stakeholders Responsibilities
Cainuk Nakabosan RDAL	990 M.	2002- 2008	No. of km reconstructed; Vehicular volume; Time taken.	DWO reports; DDC/DEC minutes	DWO (works)	Provision of security and funds.
Lodwar Nakabosan RDAL	360 M.	2002- 2008	No. of km resealed. Vehicular volume; Time taken	DWO reports; DDC/DEC Minutes.	DWO	Provision of security and funds.
Lokori Kapeddo C113	100 M.	2002- 2008	No. of km graveled; Vehicular volume; Time taken.	DWO reports; DDC/DEC Minutes.	DWO	Provision of security and funds.
Namorutunga Box Culvert (RD D348)		2002- 2008	No. of culverts in place.	DWO reports; DDC/DEC minutes.	DWO	Provision of security and funds.
Lodwar Kalokol (60 km) RD D348	180 M.	2002- 2008	No. of km of road resealed.	DWO reports; DDC/DEC minutes.	DWO	Provision of security funds.
Drifts Lokichar (RD AI) Kachoda RDC47) Lokori RDC113)	2 M. per drift.	2002- 2008	No. of drifts constructed.	DWO reports; DDC/DEC minutes.	DWO	Provision of security and funds.
Kakuma Koikor	3 M.	2002- 2008	No. of km graded.	DWO reports; DDC/DEC minutes.	DWO	Provision of security and provision of funds.
Repair and Resealing of Kakuma Lokochogio Road A1	407,080,6 80	2002- 2004	No. of km of road to be rehabilitate.	DWO reports.	DWO	Provision of security and provision of funds.
Resealing of Lodwar Makutano	153,999,4 59	2002- 2004	No kms of road rehabilitated.	DWO reports.	DWO	Provision of securit and funds.
Lokitang Water Supply	0.23 M.	2002- 2008	Water System rehabilitated.	DWE reports.	DWE	Funding; Expertise.
Kalokol Water Supply	3 M.	2002- 2008	Water System rehabilitated.	DWE reports.	DWE	Funding; Expertise.
Kerio Water Supply	2.33 M.	2002-2008	Water system rehabilitated.	DWE reports; DDC/DEC minutes.	DWE	Funding; Expertise.
Kokuro Water Supply	0.4 M.	2002- 2008	Water system rehabilitated.	DWE reports.	DWE	Funding; Expertise.
Namuruputh Water Supply	1.13 M.	2002- 2008	Water system rehabilitated.	DWE reports.	DWE	Funding; Expertise.
Lorokon Water supply	0.79 M.	2002- 2008	Water system rehabilitated.	DWE reports.	DWE	Funding; Expertise.
Kibish Water Supply	1. 91 M.	2002- 2008	Water system rehabilitated.	DWE reports.	DWE	Funding; Implementing.
Lorugum Water Supply	0.465 M.	2002- 2008	Water system rehabilitated.	DWE reports.	DWE	Funding; Implementing; Expertise.

Kainuk Water	3.425 M.	2002-	Water system	DWE	DWE	Funding;
Supply		2008	Rehabilitated.	Reports.		Implementing; Expertise.
Lokichar	1.55 M.	2002-	Water system	DWE reports	DWE	Funding;
Water Supply	70.0	2008	rehabilitated.			Implementing; Expertise.
Makutano	7,828,440	2002-	Water system	DWE	DWE	Funding;
Water Supply		2008	rehabilitated.	Reports.		Implementing; Expertise.
Todonyang Water Supply	3,020,760	2002- 2008	Water system rehabilitated.	DWE reports	DWE	Funding.
Kalemunyang Water Supply	3,467,000	2002- 2008	Water system rehabilitated.	DWE Reports	DWE	Funding.
Lokichogio	4,834,000	2002- 2008	Water system rehabilitated.	DWE	DWE	Funding.
Water Supply Kaloboi Water	1,500,000	2008	Water system	Reports DWE reports	DWE	Funding;
Supply		2008	rehabilitated.		700020 July 644-050 54	Implementing.
Katuruk Water	1,950,000	2002-	Water system	DWE reports	DWE	Funding;
Supply	Х -	2008	rehabilitated.		n -	Implementing.
Riet Water Supply	4,160,000	2002- 2008	Water system rehabilitated.	DWE reports	DWE	Funding; Implementing
Kangirisae	4,320,00	2002-	Water system	DWE	DWE	Funding;
Water Supply	4,320,00	2002	rehabilitated.	reports.	DWL	Implementing
Nadukamel	350,000	2002-	Water system	DWE	DWE	Funding;
Water Supply		2008	rehabilitated.	reports.		Implementing
Lochoremoit	2,910,000	2002-	Water system	DWE	DWE	Funding;
Water Supply		2008	rehabilitated.	reports.		Implementing.
Namukuse	3,534,000	2002-	Water system	DWE	DWE	Funding;
Water Supply		2008	rehabilitated.	reports.		Implementing.
Water Pans		2002-	No. of water	DWE	DWE	Funding;
	İ	2008	pans constructed;	reports.		Implementing.
	10 10 10	1 9	No. of		7.5	
	100		livestock			i ' '
	wh!		people served by the pans;			×
			Average		* *	
Transfer of	11.6		distance to water point.		¥	
Development	3.75 M.	2002-	No. of	DWE	DWE	Funding;
and Protection	0110 111	2008	springs	reports.		Implementing.
of Springs			protected.			
Shallow Well	4.56 M.	2002-	No. of	DWE	DWE	Funding;
Programme	- 19	2008	shallow wells sunk.	reports.		Implementing.
Capacity	1.8 M.	2002-	No. of people	DWE	DWE	Funding;
Building	4 M.	2008	trained.	reports.	DWE	Implementing.
Pump Maintenance	4 IVI.	2002- 2008	Maintenance unit functions.	DWE reports.	DWE	Funding; Implementing.
Unit Project Drilling Rig	2M.	2002-	Rig in place.	DWE	DWE	Fundings
Ziming Kig	ZIVI.	2002-	Kig iii piace.	DWE reports.	DWE	Funding; Implementing.
Rural	200 M.	2002-	No. of	KPLC	KPLC	Private sector to
Electrification		2008	supplies/km	reports;		provide funds.
walathe	18 jan		constructed;	DDC/DEC		, for
lakwamekwi	8 78 7 E	The state of	% of increase	minutes		7
anamkemer	100		of people	survey		1 (14 + 44) 1.3
apetel		312 /	supplied with	reports on		5-1
			electricity.	energy		TOTAL TRANS
Agriculture Services	200			supply in		1
	1000			Lodwar.		N 300 100 %

Alternative Energy Supply	4 M.	2002-2008	No. of people, institutions/or ganizations using solar or wind energy; % increase in demand for use of energy	Energy use survey; DFO/DECO Reports.	DFO/DCEO reports; Partners reports.	Funds; Implementation.
	al di		saving appliances; Reduced demand for wood fuel.			

4.2.3 Tourism, Trade and Industry

Project Name	Cost Kshs.	Time Frame	Monitoring Indicators	Monitoring Tools	Implementing Agency	Stakeholders Responsibilities
Entrepreneur Capacity Building	35 M.	2002 - 2008	No. of traders trained; No. of businesses started; Income levels.	DTDO reports.	DTDO	Funding; Expertise.
Credit Financing	16.1 M.	2002 - 2008	Amount credit given and the No. of beneficiaries.	DTDO reports.	DTDO	Provision of credit facilities; Expertise.

4.2.4 Human Resources Development Education

Project Name	Cost Kshs.	Time Frame	Monitoring Indicators	Monitoring Tools	Implementing Agency	Stakeholders Responsibilities
School Bursaries	8 M.	2002- 2008	Amount of bursary distributed and the no. of beneficiaries; Completion rates.	DEO reports DDC/DCE minute.	DEO	Identification of beneficiaries; Funding.
Teaching Facilities	3.2 M.	2002- 2008	No. of workshops and no. of people trained.	DEO reports.	DEO	Funds; Community mobilization.
School Feeding Programme	To be determined.	2002 - 2008	Amount of food allocated annually.	DEO reports.	DEO	Funds; Food.
Institutional Capacity Building	1.5 M.	2002 - 2008	No. of workshops held.	DEO reports.	DEO	Funds.
Ralokoh AIC Moi Secondary School	To be determined.	2002- 2008	School constructed and functional; No. of students admitted.	DEO reports	DEO	Material; Finance; Equipment.
Lokichogio Secondary School	To be determined.	2002- 2008	School in place and functional; No. of students admitted.	DEO reports.	DEO	Material; Finance; Equipment.
Lokichogio Secondary School	To be determined.	2002- 2008	Schools in place and functional; No. of students admitted.	DEO reports.	DEO	Material; Finance; Equipment.

Songot Secondary School	To be determined.	2002- 2008	No. of students admitted.	DEO reports.	DEO reports;	Material; Finance; Equipment DEO reports.
Staff Training Recruitment	450,000	2002 - 2005	No. of new teachers; No. of training sessions held.	DOL reports.	DEO	Funding
Learning and Teaching Facilities for the Department	681,500	2002- 2006	No. of learning facilities; Completion rate among the participants.	DOL Unicef Reports.	DEO	Funding material equipment.
Motor Vehicle and Motor Bikes	2,375,000	2002- 2007	One vehicle in place; 5 motorbikes in place.	Unicef Reports.	DEO	Equipment.
Learning and Teaching Facilities for Learners	1,184,400	2002- 2007	No. of courses offered; No. of participants.	DOL Unicef Reports.	DEO	Materials Funding.
Community Capacity Building	2,542,250	2002- 2008	No of sensitisation workshops forming held; No of meeting held; No. of teachers trained.	DEO Reports.	DEO	Material Funding.
Learners Mobile Classes	600,000	2008	No. of mobile classes established Coverage made.	Attendance register.	DAEO	Funding.

4.2.5 Information Communication Technology

Project Name	Cost (Kshs)	Time Frame	Monitoring Indicators	Monitoring Tools	Implementation Agency	Stakeholders Responsibility
ICT	10 M.	2002 – 2008	No. of computers purchased; No. of Cyber cafes.	Quarterly annual reports.	Private sector; DDO.	Expertise; Funds by DPU.
Databank/CIS	10 M.	2002 – 2008	GIS programme in place; No. of persons trained in GIS.	Quarterly/ annual reports.	DDO	Expertise and funds by DPU.
Capacity Building	10 M.	2002 – 2008	No. of persons Trained on IT.	Quarterly/ annual reports.	DDO	Expertise and funds by DPU.

4.2.6 Public Administration, Safety, Law and Order

Project Name	Cost Kshs.	Time Frame	Monitoring Indicators	Monitoring Tools	Implementing Agency	Stakeholders Responsibilities
Peace Harmonization	0.8 M.	2002- 2008	No. of harmonization meetings held; Reduced incidence of insecurity.	Provincial Administration reports; NGO reports.	Provincial Administration.	Funding; Facilitation.
Security Posts	0.5 M.	2002-2204	No. of security posts established.	Provincial Administration report.	Provincial Administration.	Funding.
Security Communication Gadgets	2 M.	2002-2004	No. of communication gadgets	Provincial Administration	Provincial Administration.	Funding; Expertise.

n Gadgets			gadgets procured.	reports.		America A
Motor Vehicles	5 M.	2002-2004	No. of motor vehicles bought.	Administration.	Provincial Administration.	Funding; Expertise.
Security Warning System	To be determ ined.	2002-2003	Security early warning systems functional.	Administration reports; NGOs reports.	Provincial Administration.	Funding; Expertise.
Security Roads	10 M.	2002-2004	No security roads constructed.	DWO reports; Provincial Administration reports.	Provincial Administration.	Funding; Expertise.
Establishment of M & E	4 M.	2002-2008	M & E Institutionalize d and functional.	DDO reports	DDO	Financing Data collecting.
PRA Training	6 M.	2002-2008	No. of training sessional held; No. of people trained.	DDO reports	DDO .	Financing.
DIDC Machines Equipment	7 M.	2002-2007	No. of machines and equipments bought.	DDO reports.	DDO	Finance; Equipment Material.
Turkana South Game Reserve	1 M.	2002-2008	No of access roads constructed; No. of tourists visiting.	KWS reports Council minutes.	Local Authority TCC	Finance; Equipment; Material.
Social Halls Lokichoggio, Kakuma, Lokichar, Lorgum,	3.2 M.	2002-2008	No. of Social halls constructed. No. social-cultural activities carried out.	Council minutes	Local Authority TCC	Finance; Equipment; Material.
Sale yard Kibish	506,92 6	2002-2008	Livestock sale yard in place.	Council minutes.	Local Authority; TCC.	Finance; Equipment; Material.
Nursery Schools Nachuki, Lorugum, Kakauma, Nakalale	3 M.	2002-2008	No. of nursery schools constructed; No. of pupils admitted.	DEO reports; Council minutes.	Local Authority TCC.	Finance; Equipment; Material.
Market stalls Kakuma Lokichoggio	1 M.	2002-2008	No market stalls constructed.	DWO sports Council minutes.	Local Authority; TCC.	Finance; Equipment; Material.
Slaughter House Lodwar	0.9 M.	2002-2008	Slaughter house in place.	DWO reports;	Local Authority TCC	Equipment; Material.
Guest Houses at Kainuk, Kalokol and Kakuma	4.5 M.	2002-2008	No. of guest houses constructed.	DWO reports Council minutes	Test State	Equipment; Material.
Borehole	2.8 M.	2002-2008	Borehole drilled.	DWO reports Council minute		Equipment; Material.
Sewerage Exhauster	4.5 M.	2002-2008	Sewerage exhauster purchases and in place.	DWO reports Council minutes.	Local Authority	Finance; Equipment; Material.

HIV/AIDS/ TB Control	10 M.	2002-2008	No. of meetings held;	MOH reports Health survey	мон.	Funding; Implementation.
	2	5 L x 4	Amount and No. of condoms	reports; DDC/DEC minutes;		
	# 25 Pe	Table 1	distributed; Increased demand for	NACC reports; DACC reports and CACC		- x
			condoms; No. of health workers,	reports.		
		**************************************	counsellors and teachers trained;			
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			No. of VCC established; No of			1
			HIV/AIDS transmission through blood donation o of			
Malaria Control	16 M.	2002-2008	TB centres. Reduce cases of malaria	Health Surveys MOH/DPHO	мон.	Funding; Implementation.
Programme	4 - 4		related deaths; Increase demand for insecticides	reports		
Water	1014	2002 2009	and treated nets.	II-lib	мон.	Post dia se
Water and Sanitation	8 M.	2002-2008	% increase of people accessible to clean water and	Health surveys; MOH/DPHO reports.	мон.	Funding; Implementation.
Expanded Programme of	10 M.	2002-2008	wse of latrines. % increase in immunization	Health surveys; MOH/DPHO	мон.	Funding; Implementation.
Immunization Lodwar Schools of	5 M.	2002-2004	Roadwork completed;	DWO reports; MOH reports;	мон.	Funding; Implementation.
Nursing			1 water tank in place; Fire fighting equipment in place.	DDC/DEC minutes.	\$	
Loitaung Sub- District Hospital	5 M.	2002-2004	Electricity in use.	DWO reports; MOH reports; DDC/DEC	мон.	Funding.
Kibishi Dispensary	7,975, 434.90	2002-2008	Dispensary block, staff houses in use	DWO MOH DDC/DEC	мон.	Funding; Implementation.
THE P		Do A See	Borehole in place Latrines in use.	reports.		(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
Lokongae	10 M.	2002-2008	Dispensary block, staff houses in use; Borehole in	DWO; MOH; DDC/DEC minutes.	NACC; DACC; CACC; MOH.	Funding; Implementation.
Valence	10.14	2002-	place; Latrines in use.	DWO	мон.	Funding
Nakeret Dispensary	10 M.	2002-	Dispensary block, staff houses in use; Borehole in	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
***		Service	place; Latrines in use.	1111		

Lomeyan	10 M.	2002- 2008	Dispensary block, staff houses in use; Borehole in place;	DWO reports; MOH reports; DDC/DEC minutes	мон.	Funding; Implementation.
7.1			Latrines in use.	. / / / / / /		11,52,6-16,75
Kapua	10 M.	2002- 2008	Dispensary block, staff houses in use; Borehole in place; Latrines in use.	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Kamagus	10 M.	2002- 2008	Dispensary block, staff houses in use; Borehole in place; Latrines in use.	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Makutano	10 M.	2002- 2008	Dispensary block, staff houses in use; Borehole in place; Latrines in use.	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Naoro	10 M.	2002- 2008	Dispensary block, staff houses in use; Borehole in place; Latrines in use.	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Kaikor	10M.	2002- 2008	Dispensary block, staff houses in use; Borehole in place; Latrines in use.	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Kapeto Dispensary	-	2002- 2008	Dispensary block, staff houses in use; Borehole in place; Latrines in use.	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Kangakipur	-	2002- 2008	Dispensary block, staff houses in use; Borehole in place; Latrines in use.	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Kokuro		2002- 2008	Dispensary block, staff houses in use; Borehole in place;	DWO reports; MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Hydatid Control programme	8 M.	2002-2008	Latrines in use. % reduction in hydrated incidences.	MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Integrated Management of Child Illnesses	800,00 0	2002-2008	% reduction in mortality of the under 5 years.	MOH reports;	MOH.	Funding; Implementation
Intestinal Worms Control	400,00 0	2002-2008	% reduction of intestinal worms.	MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation

Community Capacity Building	6,550, 600	2002-2008	No of CHWs and TBAs trained.	DWO; MOH; DDC/DEC minutes.	мон.	Funding; Implementation.
Males Ward at Lodwar District Hospital	11,034 ,600	2002-2008	Ward in place.	DWO; MOH; DDC/DEC minutes.	мон.	Funding; Implementation.
Amenity Ward	3,870	2002-2008	Amenity ward in place.	DWO; MOH; DDC/DEC minutes.	мон.	Funding; Implementation.
Radio Communicatio n Sets for Rural Health Facilities	5 M.	2002-2008	20 Radio communication sets purchased.	MOH reports; DDC/DEC minutes.	мон.	Funding; Implementation.
Cold Chain Fridges and Solar Panels and Battery Set	570,00 0	2002-2008	6 cold chains fridges in place.	DWO reports; MOH; DDC/DEC minutes.	мон.	Funding; Implementation.
Microscopes	100,00	2002-2008	4 microscope in place.	MOH reports; DDC/DEC minutes.	MOH reports; DDC/DEC minutes.	Funding.

4.3 SUMMARY OF MONITORING AND EVALUATION IMPACT AND PERFORMANCE INDICATORS.

The following performance indicators will determine the impact of project and programmes.

	2002 Present Situation	2004 Mid-Term	2008 End of Plan Period
Health	report to the language		***
Infant Mortality	170/1000	160/1000	120/1000
Immunization coverage	40%	60%	80%
Doctor patient ratio	1:75,000	1:60,000	1:55,000
HIV/AIDS incidence %	30%	15%	5%
Crude death rate	16/1000	14/1000	10/1000
Health coverage	50%	65%	80%
Education	-1 - 13 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	198	*
Primary school enrolment	33.9%	50%	70%
Primary drop-out rate	62.9%	42%	30%
Teacher pupil ratio	1:40	1:40	1:40
Secondary school enrolment	4.95%	8%	12%
Secondary school drop-out	24.1%	20%	16%
Social Economic Indicators	135 MATE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y 2 1	. X 801.1
Absolute poverty	74%	69%	60%
Food poverty	81%	71%	62%
Hard-core poverty	62%	50%	40%
Literacy rate	60%	65%	70%
ife expectancy	50	52	55