# **Kitui County**



# PARTICIPATORY CLIMATE RISK ASSESSMENT REPORT (PCRA)

May, 2023

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#### **DEFINITION OF TERMS**

**Adaptive capacity:** Adaptive capacity is the property of a system to adjust its characteristics or behavior, in order to expand its coping range under existing climate variability, or future climate conditions.

**Climate Change:** Means a change of weather patterns which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.

**Coping:** refers to the use of existing resources to achieve desired goals during and immediately after climate-induced hazards.

**Disaster:** A disaster can be defined as a serious disruption of the functioning of the society causing widespread human, material or environmental damage and losses which exceed the ability of the affected community to cope using their own resources. **Hazard:** Hazard is the potential for harm or an adverse effect (for example, to people as health effects, to organizations as property or equipment losses, or to the environment).

**Impacts:** Specific effects of hazards or disasters also referred to as consequences or outcomes.

**Mitigation:** Short and long-term actions, programs or policies implemented in advance of a natural hazard or in its early stages, to reduce the degree of risk to the people, property, and productivity capacity.

**Preparedness:** Pre-disaster activities designed to increase the level of readiness or improve operational capabilities for responding to an emergency.

**Response:** Actions taken immediately before, during or directly after a disaster to reduce impacts and improve recovery.

**Risks:** Risk is the chance or probability that a person will be harmed or experience an adverse health effect if exposed to a hazard. It may also apply to situations with property or equipment loss, or harmful effects on the environment.

**Vulnerability:** The conditions determined by physical, social, economic and environmental factors or processes which increase the susceptibility of an individual, a community, assets or systems to the impacts of hazards.

**Representative Concentration Pathways:** This is a greenhouse concentration (not emissions) trajectory adopted by the IPCC. These are RCP2.6, RCP4.5, RCP6, and RCP8.5.

#### **ACRONYMS**

**CCISP-**County Climate Information Service plan.

**CCU-**Climate Change Unit

**CIDP**-County Integrated Development plan.

**CSOs-**Civil Society Organizations.

**ECDE-**Early Childhood Development Education

**GHG-**Greenhouse gas

**KIMWASCO**-Kiambere-Mwingi Water and Sewerage Company.

**KITWASCO**-Kitui Water and Sewerage Company.

**NCCAP**-National Climate Change Action Plan.

**PCRA**-Participatory Climate Risk Assessment.

**SDG-**Sustainable Development Goals

**SEKEB-**South Eastern Kenya Economic Block

**RCP:** Representative Concentration Pathways

**IPCC:** InterGovernmental Panel on Climate Change

#### **FOREWORD**

Climate Change has negatively impacted the livelihoods of the Kitui community. The increase in climate related disasters such as droughts are some of the much-felt impacts of Climate Change in the County. These climatic related disasters coupled with high deforestation rates; improper waste management; unsustainable sand harvesting; watershed degradation; outbreak of pests and diseases and general land degradation have compromised the adaptive capacity of the people.

It is necessary to have the involvement of all the stakeholders including the affected communities in the PCRA process. Participatory Climate Risk Assessment (PCRA) is one of the approaches which tries to involve all key players and stakeholders in collecting their views, aspirations, concerns and wishes during the design and execution of any program. This PCRA was developed through an extensive consultation process. All the forty wards in Kitui County were involved and engaged and they were guided in identifying key climatic risks and hazards and potential interventions. The collective contributions of the National Government Institutions and agencies, County Government of Kitui departments, the civil society, faith-based organizations, other non-state actors, and individual citizens to this PCRA process has helped to deliver the expected transformational outcomes. PCRA has been an important tool in the development of the Kitui County Climate Change Action Plan.

Richard John Mwendandu <u>CECM for Energy, Environment, Climate Change, Forestry, Natural and</u> <u>Mineral Resources.</u>

#### **ACKNOWLEDGEMENT**

County Government of Kitui has employed various measures to address impacts of Climate Change. The Kitui County Climate Change Unit and the establishment of the Kitui County Climate Change Fund are some of the measures. This PCRA report presents an opportunity for identifying County hazards and developing adaptive strategies; compliments and strengthens community participation.

I wish to thank the departmental technical committee led by the Director for Environment and Climate Change, Mr. Fredrick Kimwilu; Deputy Director for Environment, Energy and Mineral Resources - Mr. Benjamin Mukulo; Assistant Director for Environment— Mr. Dominic Mumbu; Environment Officer, Ms. Marian John; and Climate Change Desk Officer, Mr. Jackson Mwendwa. Much appreciation to our stakeholders namely, Anglican Development Services Eastern (ADSE), Caritas Kitui; Kenya Meteorological Department (KMD), Meteorological Department of South-Eastern Kenya University (SEKU) and National Drought Management Authority (NDMA). I also thank all Ward and Village Administrators for their support throughout the PCRA process.

#### **David Soi Masai**

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#### **EXECUTIVE SUMMARY**

Building climate resilience is a multifaceted action involving various actors and disciplines. It revolves around preparedness and capacity building in anticipation of climatic risks and shocks. Resilience is the ultimate measure of adaptive capacity of any community. A successful climate action will require involvement and participation of all the stakeholders, understanding the context of the action and the role of each actor. To achieve this end, a participatory climate risk assessment was done in all the 40 wards within the County and whose findings are discussed in this report.

The impact of Climate Change is being felt by people, ecosystems, and economies. In fact, the United Nations' synthesis report on SDG 6 raises a similar warning, that the maximum effect of Climate Change will be experienced through changes in hydrological cycle, such as overall water availability, water quality and frequency of extreme weather events such as floods and droughts. This is the case at hand in Kitui County with data from the 40 wards pointing at drought cycles being more frequent and severe.

Climatic hazards presented in chapter two ranks drought as the biggest challenge in Kitui County impacting water availability and food insecurity. Since 1960 communities have reported severe droughts that even transited to famine, resulting in loss of livestock and human life. This assessment has discovered an increasing frequency of widespread drought events affecting more people and livelihoods. This major hazard

has been exacerbated by other compounding hazards that succeed droughts such as flash floods and emerging pests and diseases as reported by communities in the field. Climatic condition trends have demonstrated a downward trend with rainfall decreasing in both time and space. Data from the Kenya meteorological department has predicted decrease in rainfall across the County and increasing temperature. These changes set in a new climate for Kitui and adaptation mechanisms become necessary to the communities.

The assessment analyzed the existing adaptation strategies across the different wards that transverse livelihood zones. The assessment identified various strategies supporting the adaptation to Climate Change by both the County Government, non-state actors and communities. Some of the strategies include legal and regulatory frameworks, climate smart agriculture, water harvesting technologies, environmental protection and conservation among others. The effectiveness of the measures has also been discussed at length and subjected to climatic future scenarios to inform the development of the climate action plan.

This report presents the proposed investment actions and priority areas that need to be implemented to strengthen the adaptive capacity of the communities. The priority actions have addressed the specific needs of each ward and the proposed actions reflect on the aspirations of the County as alluded to by the County integrated

development plan and contribute to the national Climate Change action plan priority areas as well.

In conclusion the report draws lessons learnt from the exercise and in depth understanding of the communities involved. It presents the fragile nature of Kitui County and the severe impacts of Climate Change. It recommends coordinated effort in addressing the impact of Climate Change across sectors and implementation of the priority actions that are geared towards improving the resilience of the communities and call for resource allocations to deliberately finance these priority actions and build the adaptive capacity of the communities in Kitui County.

# 1.0 CONTEXT OF THE PARTICIPATORY CLIMATE RISK ASSESSMENT (PCRA)

# 1.1 Background

Several decades have already passed while the world is still struggling to address the issues concerning Climate Change. With protocol and agreements being ratified and adopted with little or no success. Actions on Climate Change have been undertaken both at the global arena, continental, regional and national levels.

The Kyoto Protocol was adopted on 11 December 1997. Owing to a complex ratification process, it entered into force on 16 February 2005. Currently, there are 192 Parties to the Kyoto Protocol. The Kyoto Protocol operationalized the United Nations Framework Convention on Climate Change by committing industrialized countries and economies in transition to limit and reduce greenhouse gases (GHG) emissions in accordance with agreed individual targets. The Convention itself only asked those countries to adopt policies and measures on mitigation and to report periodically.

The Paris Climate Agreement of 2015 replaced the Kyoto Protocol and included commitments from all major GHG-emitting countries to reduce their climate-altering pollution. Over the last several decades, Governments have collectively pledged to slow global warming. Despite intensified diplomacy, the world is already facing the

consequences of Climate Change, and it is expected to get worse. Through the Kyoto Protocol and the Paris Agreement, countries agreed to reduce greenhouse gas emissions, but the amount of carbon dioxide in the atmosphere keeps rising, heating the Earth at an alarming rate.

At COP 16, in 2010, Parties established the Green Climate Fund (GCF) and in 2011 designated it as an operating entity of the financial mechanism. Since 2009, global climate talks have agreed on mobilizing \$100 billion a year for developing countries to take climate action, both to adapt to Climate Change and cut emissions. While every country will need to work towards net-zero emissions, each country and community also must adapt to Climate Change. Adaptation is the foremost priority in countries with lower emissions and acute vulnerability to climate fallout, as is the case for many developing States and countries.

The Government of Kenya is fully committed to addressing Climate Change domestically, as well as demonstrating leadership in the global fight against Climate Change. Kenya submitted an ambitious Intended Nationally Determined Contribution (INDC) to the United Nations Framework Convention on Climate Change (UNFCCC). Further, the Kenyan Government enacted the Climate Change Act 2016, which established the Climate Change Fund, the Climate Change Council and created the

Climate Change Directorate under the Ministry of Environment and Natural Resources to spearhead climate actions.

Through the Climate Change Finance mechanisms, the Government of Kenya is implementing various Climate Change response projects including the Financing Locally Led Climate Change Action Programme Funded by the World Bank, Danida, and the Government of Germany.

The County Government of Kitui formulated the Kitui County Climate Change Fund Regulations in 2018 supported by the ADA Consortium. The regulations established Climate Change structures to support the County in implementing Climate Change projects. In 2019 the ADA consortium supported pilot Climate Change projects in 11 wards in the County under the regulations. For the smooth running of the Climate Change projects the County established the Climate Change unit. A unit to spearhead the implementation of the Climate Change projects and enhance Climate Change mainstreaming across other County departments. A follow-up to the pilot project is the FLLoCA programme that is being implemented under the Climate Fund regulations. The FLLoCA pragramme encampus two support grants; the Climate Change instituttuional strenghtning grant and the Climate Change investment grant. The institutional grants are made to support counties in developing strutures and systems, policy and legal frameworks in readiness to access the conditional Climate

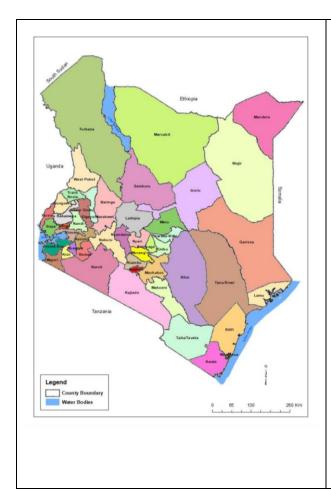
Change investment grant. Kitui County received the first CCIS grant for the development of the County Participatory Climate Risk Assessment (PCRA) that will support the development of the County Climate Change Action Plan 2023-2027.

The PCRA process was a public consultative undertaking involving five key steps that ensured all the relevant local stakeholders were involved and all the locally-led climate action principles were adhered to. The County public participation guidelines that provide for equal participation and access to information were critical considerations in the planning and undertaking of the PCRA process.

# 1.1.1 Snapshot

Kitui County is characterized by a rapidly growing population, water scarcity, falling food production, and low resilience to Climate Change. The combined effects of Climate Change and rapid population growth are increasing food insecurity, environmental degradation, and poverty levels in the County. The adaptive capacity of the community is low and aggravates the situation by the negative coping mechanisms practiced.

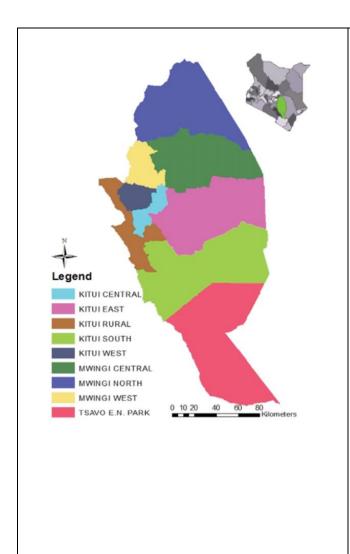
#### 1.1.2 Location and Administrative Structure



Kitui County is one of the 47 counties in Kenya. The County is the sixth largest in terms of size and covers an area of 30,520 square kilometers. It lies between latitudes 0°10 and 3°0 South and longitudes 37°50 and 39°0 East. Kitui County shares its borders with seven counties: Tharaka-Nithi and Meru to the north, Embu to the northwest, Machakos and Makueni to the west, Tana River to the east and southeast, and Taita-Taveta to the south.

# **County Administration**

Kitui County headquarters is situated in Kitui town which hosts both the County Government of Kitui head offices and the National Government County Offices.



The County is divided into eight subcounties namely; Kitui Central, Kitui West, Kitui East, Kitui South, Kitui Rural, Mwingi North, Mwingi Central, and Mwingi West which are further subdivided into 40 electoral wards and 241 villages. Kitui and Mwingi are the major urban centers but there are upcoming ones like Mutomo, Kwa Vonza, Migwani, Tseikuru, Kabati, Tulia, Katse, Ikutha, Mutitu/Ndooa, Zombe, Kyusyani, Kisasi, Kyuso and Nguni.

Figure 1: A map of Kitui County

# 1.1.3 Demography

Based on data obtained from the National Census (KNBS, 2019, Volume II), the population size was 1,136,187 people and has steadily grown. The population comprises 549,003 (48%) males and 587,151 (52%) females, Intersex 33 (0%) and the growth rate is at 1.2%. The population density average was 37 people per Km<sup>2</sup>

and a total of 262, 942 households. Kitui County is predominantly inhabited by the Akamba community which forms approximately 97% of the total number of inhabitants as captured by the County Integrated Development Plan (CIDP) 2018-2022. There is a substantive percentage of people from other communities such as Tharakas in Tharaka ward and Somali community especially in the major towns. The County has a large population of dependents 54% being children, adolescents, and the elderly.

Table 1: Distribution of Population by Sex and Sub-County

Distribution of Population by Sex and Sub-County				
Sub-County	Male	Female	Intersex	Total
Ikutha	39,986	42,976	2	82,964
Katulani	23,150	23,957	1	47,108
Kisasi	22,646	23,496		46,142
Kitui Central	52,123	53,863	5	105,991
Kitui West	33,887	36,983	1	70,871
Kyuso	36,789	40,077	1	76,867
Lower Yatta	31,7 0 1	31,628		63,329
Matinyani	23,362	24,448	1	47,811
Migwani	33,525	41,726	4	79,255

Mumoni	13,748	15,596		29,344
Mutitu	26,388	28,896	3	55,287
Mutitu North	10,337	10,877	1	21,215
Mutomo	54,819	58,531	6	113,356
Mwingi Central	52,339	56,174		108,713
Mwingi East	40,314	44,820	5	85,139
Nzambani	22,929	23,857	2	46,788
Thagicu	7,141	7,994	1	15,136
Tseikuru	19,619	21,252		40,871
Total	549,003	587,151	33	1,136,187

# 1.1.4 Climate and Topography

The central part of the County is characterized by hilly ridges separated by wide low-lying areas and has a slightly lower elevation of between 600m and 900m above sea level. There are two annual rain seasons. The Long-rains fall between March to May (MAM) and the Short-rains between October to December (OND). The highest areas in the County are Mumoni Hills, Kitui Central, Mutitu Hills, and Yatta Plateau. Due to their altitudes, they receive more rainfall than other areas in the County and are the most productive areas. On the western side, the main relief feature is the Yatta

plateau, which stretches from the north to the south of the County and lies between the Athi and Tiva rivers. The plateau is characterized by plain wide shallow-spaced valleys. Rainfall distribution is erratic and unreliable, ranging from 500mm to 1050mm per annum. Temperature and evaporation rates are generally high with February and September being the hottest months of the year. The maximum mean annual temperature ranges between 26°C and 34°C and the minimum between 14°C and 22°C with July being the coldest month of the year.

#### 1.1.5 Environment and Natural Resources Sector

Kitui County economy primarily depends on natural resources where over 95% of the population live in rural areas and derive their livelihoods mainly from these resources. According to the CIDP 2018-2022 (2018, p. 52), forests, pastures, wildlife, underground water, and mineral resources are the main natural resources in the County, with accompanying opportunities and constraints for their optimal utilization. The CIDP also highlights the need for appropriate technologies, an improved regulatory environment, proper legal frameworks, and more public-private partnerships to ensure sustainable management of the County's natural resources.

The environment and natural resources have in the past years been under threat due to overexploitation to meet basic needs, negative coping mechanisms such as charcoal production, and shift cultivation practices. The situation is aggravated by the rising

poverty levels which currently stand at 63.1% as per the Kitui County Annual Development Plan (ADP) for 2023/2024. The situation is even worse within the rural population. The migration into marginal areas from high potential areas has contributed to unsuitable land use practices often resulting in resource use conflicts, especially water and pasture. Poverty often leads to over-use and destruction of the environment where short-term development goals and practices are passed at the expense of long-term environmental sustainability. According to the Forest and Landscape Restoration Implementation Plan (FOLAREP, 2022-2027), the County forest cover stands at 15.74% compared to national cover of 12.13%. A ban on charcoal trade outside the County has helped stem some of the reduction in forest cover, although the County needs to come up with a more sustainable, long-term solution to forest management. According to Makee et al. 2016, rural communities in Kitui County engage in charcoal production as a fallback strategy for income generation especially during years of severe drought.

# 1.1.6 Agriculture and Water Sector

# **Crop Production.**

The economy of the County is dependent on agriculture, which contributes to rural employment, food production and rural incomes. The level of food self-sufficiency in the County is at 57%, however, approximately 27% of the entire population is

absolutely food insecure as per the 2022 short rains assessment report. The sector plays a major role by contributing about 87.3% of income earned by the rural population. The main food crops grown in the County include cereals such as maize, sorghum, and millets; pulses such as green grams (Ndengu), cowpeas and pigeon peas; root crops such as cassava, sweet potatoes and arrow roots; industrial crops such as cotton, sisal and sunflower, and horticultural crops represented mainly by fruits such as mangoes, pawpaw, and watermelons as well as vegetables such as tomatoes, kales, onions and bullet chilies.

Agriculture is mainly subsistence in the County with 215, 322 households practicing farming. According to data from the 2019 census, 199,459 households practice crop production while 177,701 households are in the livestock production sector. Other agriculture practices such as aquaculture, and irrigation are practiced by 570 households, 863 households, and 6,716 households respectively. The total annual average crop production is 80,680MT for cereals valued at Kshs. 4.24 billion, 771MT for industrial crops valued at Kshs. 29.04 million and 36,950MT for horticultural crops valued at Kshs. 990 million. Crop farming in Kitui is family-owned, providing the highly needed agricultural labour. Farm sizes differ from region to region with the largest farm sizes in the more arid areas and the smallest sizes in Kitui highland areas around Kitui Central. As reported by the Ministry of Devolution, the average acreage (hectares) under food production is 192,325 compared to a potential of 400,000 for

cereal crops; 298,277 compared to a potential of 380,000 for pulses; 350 compared to a potential of 2,000 for cassava; 907 compared to a potential of 170,000 for industrial crops (sisal, cotton and sunflower); 2765 compared to a potential of 16,500 for fruits, and 1170 compared to a potential of 84,500 for vegetables, respectively. The County agricultural potential is diverse with some areas being semi-arid and mostly dry, while others are arable. Kitui County Semi-arid farming zone has good potential for agricultural development and is currently either cultivated or under woodlands. The semi-arid ranching areas are less fertile and are used for drought-tolerant crops (DTCs) and livestock keeping. The Arid-agro-pastoral areas are generally suitable for grazing.

# **Livestock production**

Livestock is a key potential sector as demonstrated by the 177,701 households that practice it. The main livestock types kept in the County are cattle (beef and dairy), goats (meat and dairy), sheep, and poultry (indigenous and exotic). Farmers have also ventured into apiculture. According to the 2019 census, very few households keep beef and dairy cows with 88,486 households keeping indigenous cattle. Small livestock breeds such as goats and chicken are kept by 149,306 and 147,023 respectively. A total of 103, 497 households keep donkeys, and 30,134 households have beehives. Livestock cushions farmers during periods of drought. However, livestock farmers face several which are attributed to institutional framework, lack of pasture and quality

feed, scarcity of water resources, Climate Change, undeveloped breeding and management of livestock, poor marketing and trade, and other socioeconomic constraints.

The sector largely contributes to income generation and food security in main livestock zones. In LM4, LM5, IL5, and IL6 it contributes approximately 40-50% of total household incomes while in UM3 and UM4 it contributes 20-30% of household incomes. The County annual average production levels for various livestock enterprise products are as follows; 3,077 tonnes of beef, 1466.6 tonnes of goat meat (Chevon) and 70 million eggs, 4.2 million liters of milk, and 960 tonnes of honey against the estimated potential annual local demand of 32,120 tonnes of meat, 100.4 million liters of milk and 171.6 million eggs. Rangeland and pastures occupy about 1,048,728 hectares, which is about 80% of the County. The livestock carrying capacity is approximately 4.4 hectares per Livestock unit (LU). The Zebu constitutes 97% of the breed kept while Boran and Sahiwal account for 3%. Over 55% of beef cattle are found in AEZ IL6 and 40% in UM 4 and IL5. The balance of 5% are found in UM3 and UM4. The preferred dairy breeds are Ayrshire, Friesian, Guernsey, and Jersey, and their crosses in that order.

# **Apiculture**

Beekeeping in Kitui is still largely practiced under traditional beehives and poor management practices with honey produced being marketed through middlemen and

with no value addition. Beekeeping is a viable and sustainable form of farming because of the amount of land considered rangeland standing at over 70% and rainfall that supports adequate vegetation necessary for bee foliage. Most beekeeping activities are concentrated in Kitui South, Kitui East, Mwingi North, West, and Central. The bulk of beekeeping and honey production equipment are log hives which account for 95% of honey produced locally. Modern hives are few and account for a paltry 5% of honey production. There are 120,000 traditional hives and 10,387 modern hives in the County. The bulk of the honey estimated at 960 tonnes per annum valued at Ksh 290 Million is harvested from traditional hives. The modern hives produce an estimated 94 tons of honey with a value of Ksh. 28 million according to 2013 to 2015 average production figures. Honey from Kitui is still held in high regard. Small-scale value addition is being undertaken by Mwingi Honey Cooperative. The County Government is also promoting production and processing of honey through the establishment of 16 honey processing units. Beekeeping is an enterprise with a lot of potential for improvement in honey production and income generation. The enterprise can be an important base for the sustainable development of cottage industries in the County.

# **Water Supply**

Kitui County current water supply and demand calculated using an average consumption of 50 liters per person in urban and 25 liters per person in rural areas stands at 32,176 cubic meters and 12,586 cubic meters respectively. The shortage in

urban areas is even worse than in rural with access to piped water standing at 36.1 % urban and 41.1 % rural. Water management in Kitui is under KITWASCO which is primarily in charge of Kitui sub-counties and KIMWASCO Companies in charge of Mwingi sub-counties. KITWASCO is in charge of managing water supplies from the Masinga-Kitui water which is an inter-County project while KIMWASCO is in charge of the Inter sub-County project of Kiambere-Mwingi. The service providers face numerous challenges resulting from high non-revenue water (NRW), dilapidated water supply systems, lack of planning and budgetary allocation for water and sanitation infrastructure rehabilitation and development, high cost of pumping systems, lack of enough water to supply, uncoordinated development of water and sanitation infrastructure and inadequate technical institutional capacity. Other water points producing between 10 and 100 cubic meters daily are managed by Community Management Committees or by individuals. To increase the accessibility of water to the residents of Kitui the water companies have the following plans to increase the piping network and rehabilitate old ones. The County has two sets of borehole drilling rigs. Excavators and other machinery for dam excavation and desilting are done using AMS machines and equipment. While the management of these companies is supposed to be self-funding there are challenges, particularly in managing water losses and in collecting revenues. The community-managed water points are also selffinancing, and a few have financial problems rendering the water source unsustainable.

Kitui County water sector is constrained by increasing domestic and agricultural water requirements. The provision of safe and affordable water is one of the priorities of the Kitui County Government as detailed in Kitui CIDP (2018-2022). This commitment has been demonstrated by the huge budgetary resources allocated to the water sector from the County coffers. Contrary, the County is still grappling with the challenges of unreliable, expensive, and unsustainable water systems to support its steadily growing population and various sectors. Kitui County faces numerous challenges regarding the provision of water and improved sanitation services to the people. The majority of the people in the County still lack access to potable water and sanitation despite the numerous efforts by the County to promote efficient and reliable water harvesting and storage technologies. These efforts have been compromised by the fact that Kitui still relies to a greater percentage on its erratic rainfall patterns for water and in some instances, diesel and on grid-powered water sources. Other challenges that curtail the sustainable management of water resources in the County include; degradation of water catchment areas, rapid siltation of surface reservoirs, and poor skills in the operation and maintenance of water schemes. The urban areas in Kitui County still lack adequate water and sanitation services.

# 1.1.7 Energy Sector.

Kenya's Climate Change Action Plan 2018–2022 has prioritized the enhancement of energy efficiency as one of the priority actions to mitigate Climate Change in the country. The demand for electricity in Kenya has been growing at an annual rate of approximately 4% and it is forecasted that demand will exceed 23,000MW by 2030. The energy sector is considered a key enabler in achieving the country's development blueprint Vision 2030. Energy efficiency can be a major contributor to delivering energy access as well as climate action through mitigation, and other co-benefits associated with efficiency improvements. The SDG 7 efficiency target aims to double the rate of improvement in energy efficiency by 2030.

The core source of energy in Kitui County is biomass, which is mainly in the form of firewood particularly within rural areas while in urban centers it is sold and used as charcoal. There are other Petroleum products such as kerosene/paraffin, liquefied petroleum gas (LPG), motor gasoline, diesel oil, fuel oil, and electricity.

Biomass is mainly consumed in the form of firewood and charcoal but there are also other forms like crop residues, pellets, briquettes, or animal dung which provide energy needs for cooking, heating, drying, or electricity production. Biomass energy resources are derived from forests - closed forests, woodlands, bushlands, grasslands, farmlands, and plantations as well as from agricultural and industrial residues. According to SEAF-K 2017 (p. 43), there is a growing imbalance between biomass energy supply and demand in Kitui, with a deficit of almost 60%. This imbalance

exerts considerable pressure on forest and vegetation stocks and accelerates the processes of land degradation and desertification.

Slightly over 7.4% of all households in Kitui County use different forms of improved or clean fuels and cooking technologies, according to the 2019 Census. About 35.4% of households using charcoal utilize traditional metallic charcoal stoves. About 64.6% of households use a certain form of improved charcoal stove (SEAF-K, 2017, p. 17), most commonly, the Kenya Ceramic Jiko (which is owned by 87.6% of households with improved cookstoves). It is important to note that most of these households (82%) do not use the improved cookstoves on a daily basis, citing the high price of charcoal as the main barrier (Groots Kenya, 2017).

households using kerosene fuel and stoves have raised concerns regarding its use, including changes in color, smell, and the production of large quantities of soot during its use which affect breathing. However, there is a lack of data on such health impacts, and on the specific types of kerosene stoves owned or used by households in Kitui. Kitui County has made considerable strides in addressing the key energy gaps. This has been guided by the Kitui County Energy Outlook, Kitui County Energy master plan. The plan documents the status of energy access in Kitui and identifies priority areas of action proposing strategies to effectively provide access to clean energy solutions.

Kerosene stoves are either pressurized or have wicks. According to SEAF-K (2017),

#### 1.1.8 Health Services Sector

# **Service Providers**

Kitui County has several hospitals and health centers both public and private to meet the health needs of residents. Public hospitals include the Kitui County Referral Hospital, Mwingi Level 4 Hospital, Kyuso, Tseikuru, Nuu, Migwani, Katulani, Zombe, Mutomo, and Ikutha Level-4 hospitals. Private Hospitals include Kitui Nursing Home, Neema Hospital, Jordan Hospital, and Liberty Hospital. Mission-run hospitals such as Muthale Mission Hospital and Mutomo Mission Hospital and some private health centers such as Equity Afia among many others. The County health facilities are supported by 1086 health workforce across the County. The health services are organized into three tiers, various services can be accessed at different tiers of care. Tier 1 encompasses community strategy where health promotion, community hygiene, and sanitation, Ambulance linkage, and referral to health facilities and disease prevention services are provided. Tier 2 comprising health centers and dispensaries provide health promotion, curative, preventive, ambulance services, HIV and TB services, maternal and child health services, etc. Tier 3 comprising Sub-county and County hospitals provides all the services provided by tier 2 and in addition, it provides specialized services such as surgical services, Dental Ophthalmology services, Psychiatry care, Physiotherapy, Occupational therapy,

Orthopedics therapy, specialized pediatrics services, Specialized Medical services, Radiology services, Obstetrics and Gynecological and Ambulance services.

There are 309 functional public health facilities in the County, accounting for 6% of the country's 4, 000 public health facilities. This exceeds the national average of 85 health facilities per County by 145 (63%) facilities. However, a health facility distribution analysis conducted by the former Commission for Implementation of the Constitution (CIC) showed that the 309 health facilities were unevenly and inequitably distributed in the County. In three Sub-Counties, Kitui Central, Kitui West, and Mwingi West, over 95% of the residents live within an average distance of 5 kilometers from their homes to the nearest health facility.

# **Morbidity**

The five main common diseases in the County are malaria 49%, diarrhoea 3.4%, stomach aches 5%, Flu 4.1% and Upper respiratory tract infection 7.7%. The main causes of morbidity for children under 5 years in the County are: URTI, diarrhea, skin diseases, intestinal worms, confirmed malaria, and pneumonia. Patients over 5 years of age die due to URTI, skin diseases, confirmed malaria, diarrhea, URTI, rheumatism, and hypertension. Additionally, HIV/AIDS is also a prevalent disease, especially in urban centers with a prevalence rate of 6.1%. The main Non-Communicable Diseases (NCDs) include cancer, diabetes, hypertension, benign prostrate hypertrophy (BPH) and arthritis.

#### **Nutritional status.**

The nutrition status of the population in Kitui County remains poor as a result of frequent droughts resulting in food insecurity at the household level, sub-optimal infant and young child feeding practices, poor childcare practices, inadequate access to health services, and poor hygiene and sanitation practices in the communities. Wasting rates among children less than five years are at 4.9%. Stunting is currently at 25% (Kitui Nutrition Survey Sept 2023) which presented Kitui as the most improved County on stunting status. The prevalence of underweight is 13.9% while wasting is at 4.9%.

#### 1.1.9 Social Protection and Education Sector

# Social safety nets

A large percentage of the very poor escape extreme poverty because of social safety nets including cash transfers, in-kind transfers, social pensions, school feeding programs, and school fees bursary programmes providing clear evidence that social safety net programs contribute a substantial impact to their well-being. Kitui County in collaboration with other development partners is implementing such safety nets. Cash transfers by World Vision Kenya (WVK); cash transfers were disbursed to 2671 households (KES 18,531,164), in December 2022. Each household receives KES 6500. Cash transfer by World Food Program (WFP); through Lisha Jamii program, 4734

households have been receiving cash monthly since October 2022. Each household receives KES 6500. Nutrition Improvements through Cash and Health Education (NICHE) -It is a Component of the Kenya Social Economic Inclusion Programme (KSEIP) that combines social protection, nutrition, and child protection programming to ensure multi-sectoral and integrated service delivery. The County Government of Kitui disbursed KES 86,400,000 for the school fees bursary programme with each ward receiving KES 2,160,000.

The National Government supports three cash transfer programmes in Kitui County.

These are Older Persons Cash transfers (OP-CT), Orphans and Vulnerable Children (OVC-CT), and Persons with severe disabilities (PWSD-CT).

## Law Enforcement and public prosecution.

There are five public prosecution offices located in Kitui Central, Kitui South, Mwingi North, Mwingi West, and Mwingi Central. Community policing activities The community policing activities are active in the following sub counties; Kitui central, Kitui East, Kitui South, Kitui West, Kitui Rural, Mwingi North, Mwingi South, Mwingi West, and Mwingi Central.

#### **Basic Education Services.**

The County Government of Kitui recognizes the importance of Early Childhood

Development, as one of the most important levers for accelerating the attainment of

Education For All (EFA) and the Sustainable Development Goals (SDGs). The EFA goal number one obligated states' Governments to expand and enhance comprehensive Early Childhood Development Education programmes which are essential to the achievement of the basic education goals. Similarly, the World Fit for Children Conference in 2002 called for every child to have a good start to life by promoting quality nurturing, care, and a safe environment. The County has 1850 ECDE centres and 52 youth Vocational training centres of which 3 are not operational. Some centres are hosted within existing primary schools and other centres are located within the villages as feeder schools where children access with ease. The County has employed xxx preprimary education teachers on permanent and pensionable terms.

The County Government of Kitui as per Sessional Paper No. 1 of 2019 recognizes the importance of integrating child health and nutrition in the Early Childhood Development Education programme. To enhance school readiness and children's health, the County Government remains committed to addressing malnutrition, especially at the pre-primary level through a multifaceted approach. At present, some centers provide a centre based feeding programme, and carry home programme while others do not have any programme. Various stakeholders have in the recent past supported feeding programmes in pre-primary education.

#### 1.1.10 Transport, ICT, Trade and Industry Sector

#### Road and Air transport.

The County has two Class A roads passing through the County; the A3 Thika-Garissa Road and A9 Kibwezi-Mutomo-Kitui-Mwigwani road. The just completed Kibwezi-Kitui-Mwingi Road connects to the road leading to Machakos (Kitui- Machakos road) and subsequently connects to the Thika-Garissa highway. There are other roads proposed in the Road Sub-Sector Investment Programme (RISP) 2010-2024 including D478-Kola to A3-Nguni; B6-Kitui to A3-Ngooni; D507-Nuu to A3-Nguni; D507-Voo to B7-Ikutha; B7-Chuluni to D507-Mwitika; and E731-Miambani to D509-Mikuyuni. The County has Class E earth road network covering about 1,172.20 Kms. Upgrading of major roads to all-weather status and open more feeder roads in the County will enhance connectivity and open the region for businesses and economic opportunities. There are three airstrips in the County, namely, Ithookwe, Tseikuru and Mutomo airstrips. Refurbishment and routine maintenance will enhance connectivity. The County can also benefit significantly from T-Junction of the SGR at Kibwezi town via Mutomo.

#### **Information, Communication Technology**

The County Government recognizes the potential of ICT as an enabler of social economic development through delivery of public services and governance. The County is served by mobile telephone service providers namely Safaricom, Airtel, and

Telecom but the quality of coverage varies from location to location with network stability experienced in urban centers. The County is served by 12 post offices run by the Postal Corporation of Kenya (PCK) which oversees mail and parcel delivery as well as offering data communication services in addition to other Courier service providers such as G4S, Wells Fargo, and other public transport Saccos. Kitui County has fiber optic connection, but it is yet to be extended to serve all key departments in the County.

#### Trade and industry.

The County boasts various trade and industrial parks including the famous KICOTEC factory engaging in the production of garments and has won recognition and traded in the production of uniform for the Kenya disciplined forces. There are other established industries supporting youth in the production of construction materials and leather works within the County. Major trades include livestock trade, gums and resins, mineral gems, and other products. Kitui is known for its good quality honey and has so far supported the processing of honey through various honey cooperatives across the County such as Mwingi beekeepers and Kamaki farmers' cooperative society. The private sector has also established processing and manufacturing plants in the County such as the gypsum production in Mwingi, flour millers, and mineral mining companies for limestone and clay. The tourism sub-sector has also contributed

immensely to the economic trade in Kitui supported by the various touristic sites like the Nzamabi rock, Ikoo valley scenery, Mumoni Hills bird sites, Kora game reserve, Kitui south game reserve, and Tsavo East national parks which have improved out the number of visitors and tourists.

Kitui County had 200 shopping centers in 2014. The number of registered traders has more than doubled within three years from 5,532 in 2014 to 13,060 in 2017. Similarly, the number of registered wholesale traders stood at 1,530 in 2017 up from 142 in 2014. The number of registered jua kali artisans increased from 75 in 2014 to 420 in 2017. This is mainly attributed to improved measures by the County Government to enhance the registration of businesses and partly due to an increase in the number of new businesses operating in the County. During the period, a total of 7 modern markets, 104 market sheds, 84 boda boda sheds and 26 public toilets were operational.

#### 1.1.11 Land and Urban Development Sector.

The land tenure system is divided between family and individual (private) land tenure. The family system grants access to land based on one's qualification as a family member. This land is inherited from family lineage. Under individual tenure, an individual owns the land permanently, free from any third-party claims. Most of the inhabitants in Kitui County lack title deeds: only about 25% of landowners in the

County have them (County Government of Kitui, 2018). Kitui County has Kitui and Mwingi municipalities, and the urban centers are rapidly growing in population and expanding. There are other upcoming towns such as Mutomo, Kyuso, kabati, Nzombe, Nguni, and Mutito/Ndooa.

#### **1.2 Policy Context**

#### 1.2.1 International Policy Framework

Climate Change is the most indisputable challenge to socio-economic development and environmental sustainability the world over. Its effects have a bearing on people's lives and livelihoods. The devastating effects of Climate Change prompted the states to come up with a way of dealing with the menace hence the birth of the United Nations Framework Convention on Climate Change (UNFCCC) in 1992. The aim was to prevent further anthropogenic effects on the climate system through the stabilization of the level of GHG concentrations in the atmosphere. The Paris Agreement currently adopted by 196 countries is a legally binding international treaty on Climate Change which Kenya has ratified and has been the anchor of Kenya's climate-related laws and policies. The main aim of the treaty is to strengthen the global response to the threat of Climate Change with an emphasis on reducing the global temperature rise below 2 degrees.

The UNFCCC secretariat (UN Climate Change) is the United Nations entity tasked with supporting the global response to the threat of Climate Change. Both Kyoto Protocol and the Paris Agreement fall under the UNFCCC framework. Kenya is a signatory to both agreements and hence has come up with strategies for mitigating Climate Change.

In the lead-up to the Paris meeting, the UN tasked countries to submit plans detailing how they intended to reduce greenhouse gas emissions commonly known as the nationally determined contributions (NDCs).

#### **1.2.2 National Policy Framework**

The dedication by Kenya to the UNFCCC, just like other member states, is demonstrated by her commitment to the Nationally Determined Contributions (NDCs). The main objective of Kenya's NDC was to express her commitment to lower greenhouse gas emissions by 30% by the year 2030. Most specifically, Kenya's key commitments in the NDCs under the Paris Agreement include: -(i)Greenhouse gas (GHG) emissions reduction by 30% by 2030; (ii) mainstreaming of Climate Change adaptation into Government planning processes and (iii) implementation of adaptation actions

In follow up to the 2015 Paris conference, Kenya took it over to immediately put her NDCs into action. Some of the key achievements include the enactment of a

comprehensive law (Climate Change Act, 2016) and a policy to guide national and sub-national (County) climate actions. The Climate Change Act of 2016 and the National Climate Change Action Plan (NCCAP) 2018–2022 guide low-carbon and climate-resilient development pathways. The Act creates the national Climate Change council which is chaired by the president and directs Climate Change actions and commitment at the national level. The development of the Kenya National Adaptation Plan (2015-2030) geared towards enhancing climate resilience in the realization of Vision 2030, the National Climate Change Action Plan (2018-2022), and the National Climate Change response strategy 2010 have guided the climate actions in Kenya. The Act established the Climate Change directorate to spearhead Climate Change matters and provide a regulatory mechanism towards building the resilience of communities and guide in the aspirations of low carbon development pathway. Section 19(1)-(5) of the Act outlines that a County Government in the performance of her duties shall "mainstream Climate Change actions into County Government functions, integrate and mainstream Climate Change actions, interventions and duties as set out in the Act, and the National Climate Change Action Plan into various sectors.

The National Adaptation Plan (2015-2030) integrates Climate Change into national and County level development planning and budgeting, as well as enhancing the resilience of vulnerable populations to climate shocks through adaptation and Disaster risk reduction programs.

#### 1.2.3 County Policy Framework

The County Government Act (2012) has mandated counties to develop a County Integrated Development Plan (CIDP) which is a five-year plan to guide the development across the County. The CIDP (2022-2027) underdevelopment has identified Climate Change with all its manifestations as a key hindrance to the County development and mainstreamed in various County plans such as the County Spatial Plan (CSP) as well as Cities and Urban Areas Plan which are the basis for County budgeting and expenditures.

In addition to this, the County Government of Kitui enacted the Kitui County Climate Change Fund Regulations in 2018 to give effect to section 19 of the national Climate Change Act. This operationalized Kitui County Climate Change Fund (KCCCF) and put in place structures for implementing County specific climate actions. The regulations established the County Climate Change Steering Committee (KCCCSC), County Climate Change Technical Committee (KCCCTC), and Ward Climate Change Planning teams (WCCPTs) in the County wards. Later in 2023, the County put in place the Kitui County Environment and Climate Change Policy (KCECCP) to give impetus to the existing frameworks. These structures have placed Kitui County in a vantage position to mobilize resources and/or build partnerships for the implementation of adaptation and mitigation programs and projects to build the resilience of her citizens against the effects of Climate Change.

The Kitui County Environment and Climate Change Policy 2023 recognizes the impacts of Climate Change on the key sectors of development namely water, health, education, agriculture, livestock, infrastructure, transport, and communication including sports and culture as been greatly affected by Climate Change. The policy outlines inadequate policies and regulatory frameworks in addition to low community adaptive capacity to Climate Change as the biggest challenge in building resilience to climatic shocks. The policy recommends structured community capacity building including strengthening human and ecosystem resilience and deliberately moving to mobilize resources towards Climate Change actions.

#### 1.3 Purpose of the PCRA Report

## **1.3.1** Purpose of the PCRA

Devolved climate finance is a relatively new concept in the Climate Change arena. It is, however, the best thing to have happened because the grassroot community bears the brunt of Climate Change related disasters and risks directly affecting their lives and livelihoods. Some of these risks are long-term shifts in climate patterns including unreliability of rainfall and chronic heat waves, soil erosion, loss of biodiversity, upsurge of diseases and pests, and extreme and frequent droughts among others.

The NCCAP 2018-2022 set out initiatives that foster the movement towards achieving Kenya's NDCs through the reduction of GHG emissions, mainstreaming Climate

Change adaptation into Government planning processes, and implementation of adaptation actions. Further, Climate Change Act 2016 through Section 19 calls for mainstreaming Climate Change action into County plans and programs. This formed the basis for the establishment of County structures for addressing Climate Change in the County. Kitui County was one of the first five counties to put in place Climate Change structures. Counties that had put in place structures for addressing Climate Change were given priority in signing into the Funding of Locally Led Climate Action (FLLoCA) program.

FLLoCA program is a partnership between the Government of Kenya (GoK) and the International Development Association (IDA), seeking to deliver locally-led climate resilience actions and strengthening County and national Government capacities to manage climate risks with the long-term aim of increasing communities local-level resilience to Climate Change and other environmentally induced hazards. This will contribute to building a low-carbon development pathway with enhanced climate resilience toward the attainment of Vision 2030. The program is being implemented as a hybrid of Performance for Result (PfR) and Investment Project Financing (IPF) respectively. Whereas PfR supports the GoK program to address Climate Change at County level through financing climate resilience actions and building enhanced County risk management capacities, the IPF component will support climate risk management capacities at the national level. As a requirement for Climate Change

Investment grants (CCIR), participating counties are expected to undertake Participatory Climate Risk Assessment (PCRA) at the ward and County level. The PCRA report will later feed into the Kitui County Climate Change Action Plan (CCCAP). Through a three-phased process, the approved CCCAP, will inform into the National Climate Change Action Plan (NCCAP) 2023-2027. The upcoming plan is informed by a wholly consultative participatory process starting from community-generated PCRA as stipulated in section 4(2)(f) of the Act. Climate Change Action Plans both at the National and County Government level play a catalytic role that enables Governments to deliver climate action results through appropriately structured interventions by responding to existing challenges that promote locally led climate action.

The PCRA process presents an opportunity for the grassroot communities to be at the center of designing and making decisions on how they intend to respond to Climate Change within their context and for what works best for them.

The PCRA process provided a platform on which the community took time to reflect on the past climatic events and phenomena, how the events were managed within the community and their impacts on livelihoods and people. Further, the process took account of the current climatic conditions and projects the future scenarios on which the adaptation strategies for climate actions are supposed to be anchored, unlike the normal planning processes that rarely look into the future.

The PCRA report will feed into the development of the County Climate Change action plan. The action plan will carry with it the aspirations and proposals from the grassroot communites and strategies that are contextualized. Once implemented, the actions will be highly embraced by the communities enhancing ownership of projects and a key sustainability feature.

The PCRA process has deliberately devolved decision making processes to the grassroot communities; the communities have become the project initiators unlike in other planning processes existing in the County. It further provides avenues to address community inequalities manifested by the use of other County planning tools by promoting the inclusion of women, youth, children, elderly, disabled, marginalized, and vulnerable groups. The process has in addition built the capacity of County Governments and local community structures to address climate-related risks and shocks.

# 1.3. 2 Key steps in the County's PCRA process

# **Step 1: Constituting The Technical Working Group**

The Climate Change Unit (CCU) identified the composition of the consultative group to provide information for inclusion in the PCRA process and to form a team to be engaged during the data collection exercise at the ward level to enhance public participation. The consultative group was composed of technical officers from the

various sectors within the County Government (Health, water, Agriculture, Gender, Culture, Tourism, Livestock, Energy, Mining, Forestry and Environment) and national Government entities that are within the County jurisdiction (NDMA, NEMA, WRA, KFS, KMD, KEFRI and Department of Social Services). Further, the consultative group also included non-state actors (Caritas, ADSE, and civil society) and South Eastern Kenya University. Community representatives drawn from the ward level also formed part of the consultative group.

Under the coordination of the Climate Change Unit, the consultative group underwent a three-day workshop held in Mutomo Capital Inn hotel from 19th -21st April 2023. During the workshop definition of the key terms used in the PCRA process and clarity on the process of field data collection were adequately done. This guided each section of the PCRA and the tools to be used in each. This guaranteed data consistency, relevance in the field data, and reduced errors and misinformation. It further provided equitable access to information as provided for under the principles of public participation.

Finally, the technical working group drawn from the consultative group was appointed by the Chief Officer in charge of Environment, Climate Change, and Forestry to steer the PCRA process. Members included sectoral directors from Environment, Climate Change, Agriculture, water, health, livestock and economic planning. In addition to the appointed sectoral directors were also technical officers from KMD, NDMA and SEKU. The technical working group reviewed the PCRA and Action Planning guidance, constituted the data collection teams, developed approaches to enhance participation of the vulnerable and marginalized community members, budgets for the entire process, and calendar of activities. Under the coordination of the CCU, the technical working group rolled out the PCRA process from 11<sup>th</sup> to 24<sup>th</sup> May 2023 which eventually culminated in this PCRA report.

## **Step 2: Mapping Stakeholders and Analysis.**

The main aim was to identify all key stakeholders at the County, sub-County, and ward level who can contribute to the PCRA process including the historically marginalized and those vulnerable to the impacts of Climate Change, and further develop a stakeholder engagement strategy for the process. To achieve this, the exercise was facilitated using the Venn diagram to identify key stakeholders relevant to the Climate Change action and the task ahead.

Through the use of the Venn diagram the TWG was able to undertake the stakeholder analysis; identifying all the stakeholders that are within the community and will be of importance in the PCRA process. The stakeholders were further categorized based on their influence in society, their interests either social or economic interests, or the impact of their activities on the communities, and their strengths and capacities. This

analysis guided the TWG in developing approaches and schedules for stakeholder participation in the PCRA process. The following stakeholders were identified as outlined in Table 2 below.

Table 2 Stakeholder Analysis

STAKEHOLDER ANALYSIS		
Stakeholder Sector Description of actions related to		Description of actions related to PCRA
National Drought Management Authority	Disaster management	Early warning bulleting/drought response
Kenya Meteorolgical department	Climate information	Climate forecasts
South eastern kenya university	Research	Dryland research
Kenya forestry research institute	Research	Dryland forestry
Chamber of commernce	Trade and industry	markets and trade
Department of agriculture	agriculture	Livelihoods support
Department of social services	Social	social protection
Department of public participation	Public	public participation intiatives
Department of water	water	water provision services
Water resources authority	water	Catchment protectiona nd water regulation
Department of disaster management	Disaster management	developmen tof contigency plans
Department of environment	environment	Environment conservation activities
Aglican development services eastern	NGOs	Climate change projects
Kitui development centre	NGOs	livelihood projects
Caritas kitui	FBOs	Climate/livelihood projects
Inades formation	NGOs	Climate projects
Community forest associations	CBOs	community forest mangeemnt
Water resource user associations	CBOs	water catchemnt management
Chiefs, Sub chiefs, village elders	Provicial adminstration	Community organization
Ward and village adminstrtors	County adminstration	Community mobilization and adminstration
Member of parliament/county assembly	Representation	Community representation
Religious groups	churches	community social welfare
Community organized groups	Selfhelp groups	Community social development

# Step 3: Preparation of Ward Level Community and Stakeholder Engagement

The TWG informed the ward administrators of the planned PCRA process, its objectives, the process of the exercise, the days for the exercise, and the participants to participate in the process. Through the village administrators and public meetings, the participants were mobilized for participation in the process with clear communication on what the process was all about, who to be involved, the venue, and the objectives. This mobilization process provided equitable access to information, an opportunity to collect community views, and provided appropriate feedback as guided under the Public Participation Act, 2016. In addition, the technical team reviewed and customised the data collection tools such as the matrices and guiding notes for the field teams; materials, and time schedules before the start of the exercise.

## **Step 4: Community Engagement and Data Collection**

Field data collection and community engagement meetings were held from  $11^{th} - 24^{th}$  May 2023. The lowest unit of data collection was the ward level in all 40 wards. Participants engaged at the ward level were made aware of their roles and contributions to the PCRA process. The TWG constituted data collection teams from the consultative group which had earlier on undergone the three-day training.

The ward administrators in collaboration with the village administrators mobilized the participants guided by a list that was developed by the TWG. The list included the village administrators, 2 representatives of youth of both genders, 2 women representatives, 2 elderly representatives, 2 religious group representatives, 2 representatives of community-based organizations, a representative of the member of County Assembly (CA), a representative of People With Disability (PWD), a representative of the minority group, village elders, chair of the ward development committee, 5 representatives of community groups, 2 representatives of the 2 key economic activities in the ward and a representative from each village.

The methodology for data collection was organized in form of group discussions and sharing and plenary for inputs and building consensus on areas of prioritization as guided by the County public participation guidelines. The facilitators were guided by the tools shared during the consultative group training workshop and additional tools developed by the TWG.

The findings from the ward consultations were presented in form of tables, charts, and illustrations and were well-recorded by the data collection team in preparation for data analysis. The social and resource maps formed part of this document, as the historical calendar, community adaptive strategies, and action plans developed at the field level informed the PCRA report.

Table 3: Exercise procedure and activities

Activity	Description		
Activity 1	Introduction of community members, WCCPTs, Ward		
	Officers, and Technical working group		
Activity 2	Identification of resources and input into the map;		
	Mapping of risks		
Activity 3	Climate information discussion on historical, current,		
	and projected scenarios		
Activity 4	Identification of Climate risks, Direct and Indirect		
	Impacts; Identification of vulnerable groups		
Activity 5	Group work on priority Climate Risks, discussion on		
	adaptation strategies, effectiveness of the strategies,		
	actions that support the strategies, Factors		
	undermining the strategy, and new adaptation		
Activity 6	Action Planning		

#### Step 5: Ward Level Data analysis and development of the Ward PCRA report

The ward data collection teams were allocated two days to analyze the data from the field and develop the ward PCRA report. The PCRA report template had earlier been shared during the consultative PCRA group training. The product of this exercise was the ward PCRA report. This was done by ward team leaders and the note-takers from the respective forty wards. The report was developed with information captured through the ward resource map, historical profile, seasonal calendar, gender daily calendar, and access and control of resources.

The ward data collection team complied a ward PCRA report whose key components were:- the ward background information, climatic history, key climatic events and phenomena, prioritized climatic hazards and identified, differentiated risks and current adaptive strategies and proposed adaptive measures. The report also presented a ward-level climate action plan with proposed interventions, locations for the action, and associated budgets. The ward-level PCRA report was used to inform the County PCRA report.

# **Step 6: Development of County PCRA Report**

A team of five technical officers was appointed to lead the process of writing the PCRA report. The team consisted of technical staff drawn from key climate-sensitive sectors and of individuals with vast knowledge in their area of specialization. This made data

analysis from the field ward PCRA reports easy and presented in a way that does not distort the meaning making the report palatable and user-friendly. The report development team interrogated the ward PCRA reports categorizing the wards with similar hazards, associated risks, and adaptative strategies according to livelihood zones. Further, the team ranked the County hazards and differentiated the associated risks. The team engaged key stakeholders in triangulating the climate information from the ward and developing the future climate scenarios. The team compiled this information to form the County PCRA report with key sections on County hazard profile, Climate information, and climate future scenarios, existing adaptive strategies, and proposed adaptation plan.

#### **Step 7: Multi-sector Engagement on County PCRA Report**

The CCU convened a multi-sector workshop to refine the key findings captured under the County PCRA report. The participants drawn from various sectors both national and County Government, civil society groups, community representatives, and non Governmental organizations were involved in this validation process. The CCU presented the PCRA report highlighting the outcomes in each of the chapters. The participants gave their views on areas of omission, inclusion, and consideration for the final PCRA report. The inputs from this workshop were incorporated into the County PCRA report.

#### 2.0 KITUI COUNTY CLIMATE HAZARD PROFILE

#### 2.1 Current and Historical Climate Hazards and Trends

## 2.1.1 County Overview

Kitui County has an arid and semi-arid climate, with erratic and unreliable rainfall distribution and extreme temperature variations. The rainfall received is bimodal with two main seasons namely March–April–May (MAM) long rain season and October–November–December (OND) short rain season. OND is usually more reliable in terms of agricultural productivity. Severe drought events have been recurring in most parts of the County while occasional flash floods have been experienced along major seasonal rivers. The total number of months with an average temperature greater or equal to 25°C serves as an indicator of heat stress. Historically, the months of January to May, October, and November, are months that experience heat stress.

#### 2.1.2 Historical and Current Climate Hazards

During the Participatory Climate Risk Assessment process, the Historical Calendar Tool was used to identify key climate-related events that have occurred in the last 20 years and left a significant negative/positive impact on community livelihoods and resources. Other climate-related data collection tools used were Resource maps, gender daily calendars, seasonal calendars and leaky bucket. The risks and hazards

were identified from the tools, and thereafter, the hazards were characterized based on causes and the impacts at the individual and community level through analytical decisions. The data analysis tools used were hazard cause-effect, capacity assessment as well and vulnerability assessment tools that differentiated the impacts as high, medium, or low on different key interest groups within the County.

Based on the ward-level climate risk assessment report, 4 climate hazards were identified and ranked as follows;

- 1. Drought
- 2. Environmental degradation
- 3. Floods
- 4. Extreme temperatures

#### 2.1.3 Historical Climate Hazards and Risks Profile

Period	Hazard	Risks
1980-1981	Drought	- Famine (nikwa
2007-2011		ngwete)
		- water scarcity

2012 - 2022		<ul> <li>human-human conflict         (Ngomeni, Nguni and</li></ul>
2000 - 2022	Environmental Degradation	- Loss of biodiversity
		- degradation of environmentally sensitive ecosystems
1993	Floods	Low crop yield, destruction
1997		of infrastructure/property, destruction of farming lands,
2002		loss of lives, outbreak of
2006		waterborne diseases

1998 – 2004	Extreme high temperatures	Heat stress
2006 – 2008		
2014 – 2016		
2020 - 2022		

## 2.1.4 Rainfall Distribution

# (i) Long Term Mean OND Rainfall for the Period 1982 - 2022

The following chart focuses on average OND rainfall based on historical values covering a period of 40 years. (Data source; Kitui County Meteorological Office)

Description	Мар

The map illustrates long term mean rainfall distribution in Kitui County for OND, typically highest mean rainfall with record between 450 - 600mm received in Miambani, Township, Kyangwithya East, Matinyani, MutoNguni some parts of kyangwithya west while lowest mean rainfall record between 250 - 300mm in peripheral areas of Mutha and athi wards.

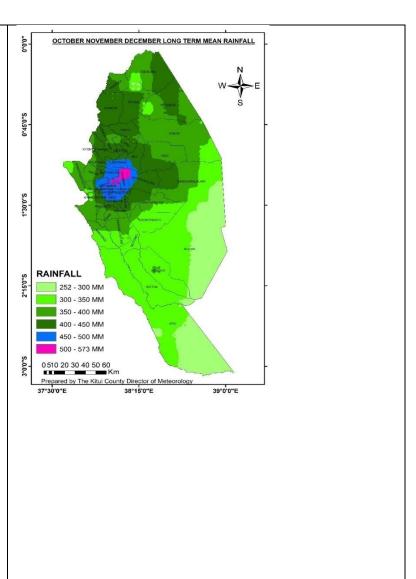


Fig. 1: Average rainfall for OND for the period 1982 - 2022

Kitui	County	PCRA	Report	2023
NILUI	Country	, , Сил	NCDOIL	2023

# (ii) Long Term Mean MAM Rainfall for the Period 1982 - 2022

The following chart focuses on average MAM rainfall based on historical values covering a period of 40 years. (Data source; Kitui County Meteorological Office)

Description	Мар

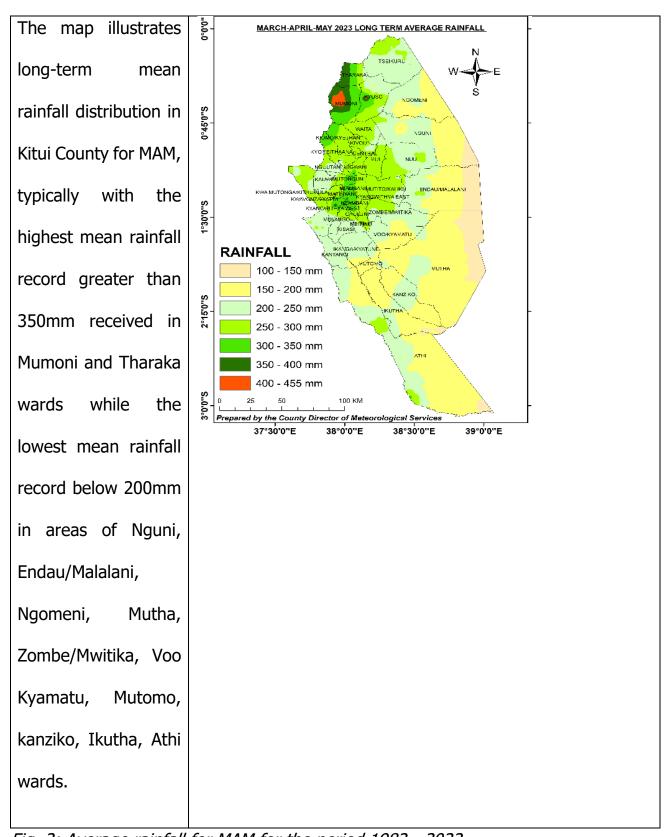
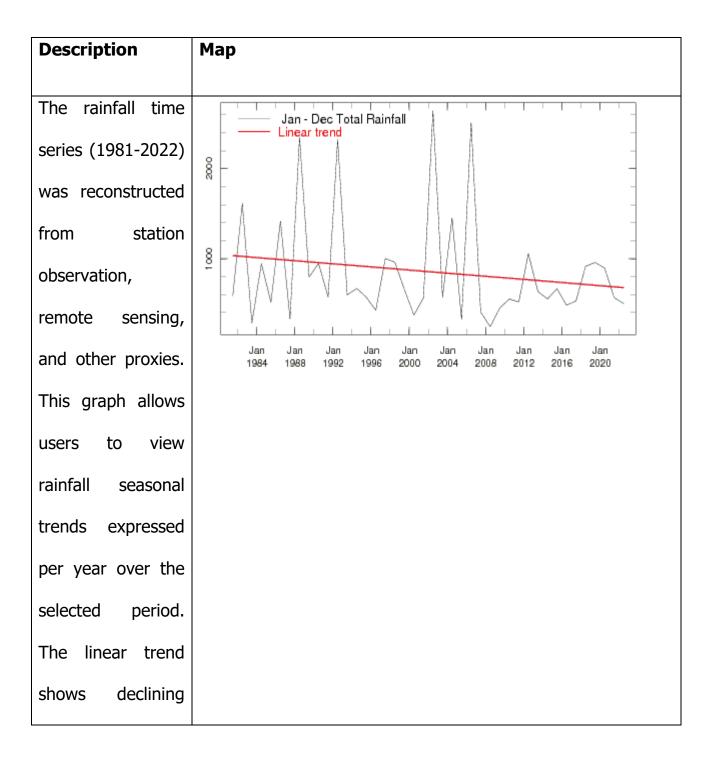


Fig. 2: Average rainfall for MAM for the period 1982 - 2022

#### 1.4 Annual Rainfall Trends



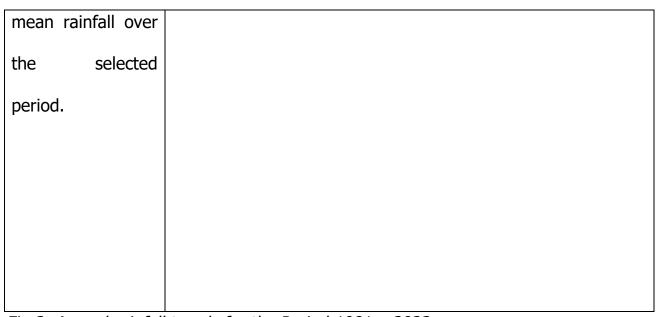


Fig 3: Annual rainfall trends for the Period 1981 – 2022

## **Discussion**

The long-term annual mean (over 20 years) rainfall for OND indicates reliability during a normal season in most parts of the County. At sub-county level, analysis of the mean rainfall record is as follows;

- High (Above 450mm); Kitui Central
- Medium (between 350 450mm); Kitui West, Mwingi West, parts of Mwingi
   North, and parts of Mwingi Central
- Low (below 350mm); Kitui Rural, Kitui south, and Kitui east

The long-term annual mean (over 20 years) rainfall for MAM indicates unreliability during a normal season in most parts of the County. At sub County level, analysis of the mean rainfall record is as follows;

- High (Above 550mm); Part of Mwingi North (around Mumoni Hills)
- Medium (between 250 350mm); Kitui West, Mwingi West, parts of Mwingi
   North, Kitui Central, and Mwingi Central
- Low (below 250mm); Kitui Rural, Kitui South, Kitui East.

The trend in the long-term annual mean rainfall distribution has been decreasing for both the MAM and OND seasons. This has caused recurrent events of drought followed by flash floods and environmental degradation in different seasons of every year.

# **2.1.5 Monthly and Annual Mean Temperature**

#### **Monthly Mean Temperature**

Description	Graph

monthly The mean temperature (1981-2022) was reconstructed from station observation, remote sensing, and other proxies. This graph allows users to view the monthly temperature mean expressed per month over the selected period on the 50<sup>th</sup> percentile graph. The monthly highest mean temperature record indicated in March while the lowest monthly mean temperature record is indicated in July.

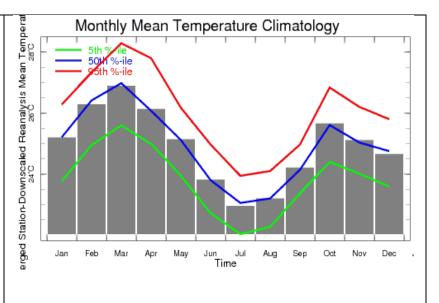


Fig 4: Monthly mean temperature climatology

# **Annual Mean Temperature Trend**

Description	Graph
Temperature time	Jan - Dec Mean Temperature Linear trend
series (1981-2022)	Linear trend
was reconstructed	
from station	F/ /AAA
observation,	8
remote sensing,	
and other proxies.	Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan 1984 1988 1992 1996 2000 2004 2008 2012 2016 2020
This graph allows	
users to view mean	
temperature	
seasonal trends	
expressed per year	
over the selected	
period. The linear	
trend shows rising	
mean temperature	
over the last 40	
years by 1.7°C	

#### Fig 5: Annual temperature trend for the period 1981 - 2022

## **Discussion**

The long-term monthly mean temperature climatology analysis;

- High recorded in February, March, April, October and November
- Medium recorded in May, June, September, and December
- Low recorded in July

The annual temperature trend indicates a constant increase in temperature every year. Over the selected period, the graph for long-term annual temperature trend shows an increase in temperature by 1.7°C.

Increasing temperatures above average have led to severe events of drought due to the drying up of water wells, seasonal rivers, and water reservoirs. Extreme temperature-related risks such as heat stress have reoccurred significantly over the decades. An increase in warmer days has been noted in Mwingi North, Kitui South, and Kitui East Sub-counties.

## 2.2 Exposure and Vulnerability Profiles

The identified vulnerable groups were women, youth, PWD, children, elderly and children-headed families. Climatic conditions dictate the livelihoods of the people and their exposure to climatic hazards. According to participatory climate risk assessment at the wards, the main livelihood enterprises in the County are;

- Marginal mixed farming
- Mixed farming
- Formal/unskilled employment.

The table below shows the vulnerable groups and their livelihoods that have been exposed to the hazards;

S/N	Hazard	Vulnerable	Livelihoods
		groups exposed	affected
1.	Drought	Women, youth,	- Crop farming
		PWD, elderly	- Livestock
			keeping

				-	Horticulture
					farming
				-	Kitchen
					garden
				-	Poultry
					farming
				-	Boda boda
2.	Environmental	Women,	youth,	-	Crop farming
	Degradation	PWD, elderly		-	Livestock
					keeping
				-	Horticulture
					farming
				-	Kitchen
					garden
				-	Poultry
					farming

3.	Floods	Women,	youth,	- Crop farming
		PWD, elderly	,	- Horticulture farming
				- Boda boda
				- Retail
				businesses
				- Market days
4.	Extreme	Women,	youth,	- Crop farming
	temperatures	PWD, elderly	,	- Livestock farming
				- Boda boda and retailing

# 2.3 Differentiated Impacts of Climate Trends and Risks

Hazard	Direct and Indirect Impacts			
	Impacts on community	Impacts on		
		ecosystems/biodiversity		
Drought	- Low crop yields	- Drying of springs		
	- Death of livestock	- Loss of vegetation		
	- Loss of household	and forest cover		
	incomes	- Extinct of indigenous		
	- Rural-urban	tree species		
	migration	- Lowered water table		
	- Family conflicts and	- Migration of wildlife		
	breakups	(wild animals)		
	- Increased crime	- Destruction/loss of		
	(theft issues)	natural habitats		

	<ul><li>Human-human</li><li>conflict</li><li>Human-wildlife</li><li>conflict</li></ul>	
Environmental	- Low crop yields	- Drying of springs
degradation	- Death of livestock	- Loss of vegetation
	- Loss of household	and forest cover
	incomes	- Extinct of indigenous
	- Human-human	tree species
	conflict	- Lowered water table
	- Human-wildlife	- Migration of wildlife
	conflict	(wild animals)
		- Destruction/loss of
		natural habitats

Floods	- Destruction of crops	- Loss of aesthetic
	- Destruction of	value of landscapes
	farming lands	- Destruction of wildlife
	- Loss of lives	- Soil erosion
	- Destruction of	- Siltation of water
	infrastructure	reservoirs
	- Outbreak of	
	waterborne	
	diseases	
Extreme temperature	- Drying of crops	- Migration of wildlife
	- Low yields	- Drying of water
	- Loss of income	springs and
	- Heat stress	reservoirs
	riode sa oss	- Drying of vegetation
	- Headaches and	- Emergence of
	human suffering	invasive species

- Increased	snake	
bites		

## 2.4 Spatial Distribution of Hazards and Risks

The following table shows the hazards, associated risks, and the affected wards. Maps for each hazard and spatial risk distribution have been developed and attached below the table.

Source of spatial maps: Digitized spatial map by Kitui County GIS department relying on ward-level risk assessment reports developed during the PCRA process conducted in May 2023.

#### 2.4.1 Hazards and Associated Risks

S/N	Hazard	Associated Risk	Ward		
1.	Drought	Water scarcity	Most hit are	eas (Mui, Ika	nga, Kauwi,
			Chuluni,	Ikutha,	Kanyangi,

		Kiomo/Kyethani, Yatta/Kwa Vonza,
		Kyome/Thaana, Endau/Malalani,
		Voo/Kyamatu, Kanziko/Simisi, Athi,
		Mutomo/Kibwea, Kyuso, Tharaka,
		Ngomeni, Tseikuru, Mumoni,
		Mutha).
		Moderate hit areas (Mutitu/Kaliku,
		Nguni, Waita, Nzombe/Mwitika,
		rigani, wata, wzombej wiaka,
		Kivou, Nuu, Ngutani, Mui, Nguni).
		Low Hit Areas (Kyangwithya East,
		Kyagwithya West, Kithumula/Kwa
		Mutonga, Kisasi, Mulango,
		Miambani, Mwingi Central,
		Nzambani, Mbitini, Kitui Township,
		Matinyani, Migwani).
	Lack of pasture	Most hit areas(Ngomeni, Mutha,
		Kanziko, Endau/Malani,Mumoni,
		Tharaka, Tseikuru, Nguni,Athi,

nza)
,
Ikanga,
Ngutani)
ambani,
gwithya
Mbitini,
p).
(Mui,
Chuluni,
yethani,
Thaana,
yamatu,
Athi,
haraka,
Mumoni,

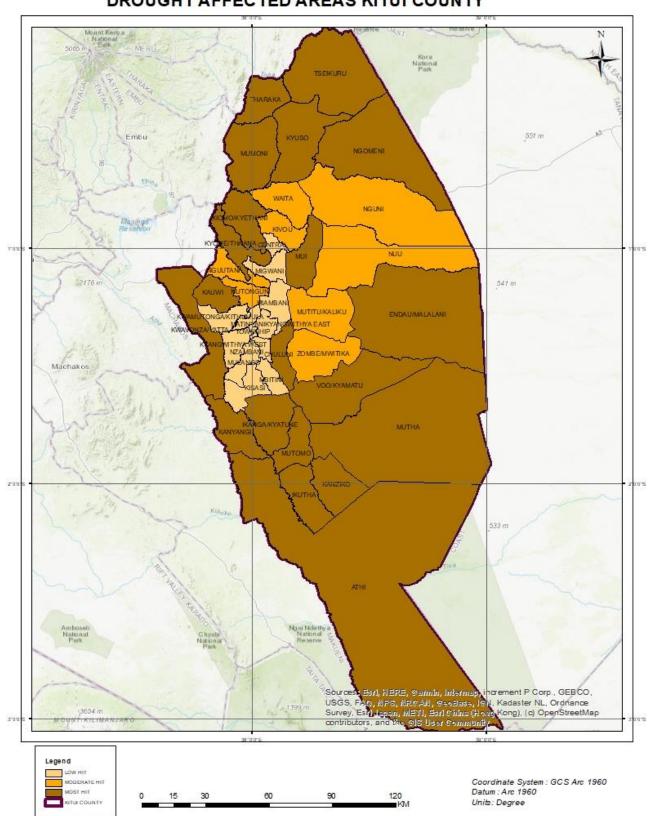
			Moderate hit areas (Mutitu/Kaliku,
			Nguni, Waita, Nzombe/Mwitika,
			Kivou, Nuu, Ngutani, Mui, Nguni).
			Low hit areas (Kyangwithya East,
			Kithumula/Kwa Mutonga, Kisasi,
			Mulango, Miambani, Mwingi
			Central, Nzambani, Mbitini, Kitui
			Township Matinyani, Migwani,
			Kyagwithya West).
		Human/wildlife	Areas: Ngomeni, Endau/Malalani,
		conflict	Tseikuru, Mutha, Athi, Ikutha,
			Kanyangi, Chuluni, and Mutomo.
	For incompany	Daniel die e	(Mai Theore /// article Charles
2.	Environmental	Degrading	(Mui, Ikanga/Kyatune, Chuluni,
	degradation	ecosystems/habitats	Ikutha, Kanyangi, Kiomo/Kyethani,
			Yatta/Kwa Vonza, Kyome/Thaana,
			Endau/Malalani, Voo/Kyamatu,
			Kanziku, Athi, Mutomo/Kibwea,

			Ngomeni, Tseikuru, Mumoni, Mutha Nuu and Nguni.
		D. II:	
		Pollution of air,	Kitui Township, Mwingi Central,
		water, and soils	Mutomo/Kibwea, Kyuso, Kauwi,
			Kyagwithya West, Kyangiwthya
			East, Mulango, Yatta/Kwa Vonza.
3.	Flash Floods	Landscape changes	Nguni, Chuluni, Voo/Kyamatu, Mutha, Athi.
		Soil erosion	Areas:- Nguni, Chuluni,
			Voo/Kyamatu, Mutha, Athi.
4.	Extreme	Emergence of crop	Ngomeni, Kyuso, Mumoni, Tseikuru,
	temperatures	pests and diseases	Tharaka, Waita, Nguni, Mwingi
			Central and Kivou ward.

Г		

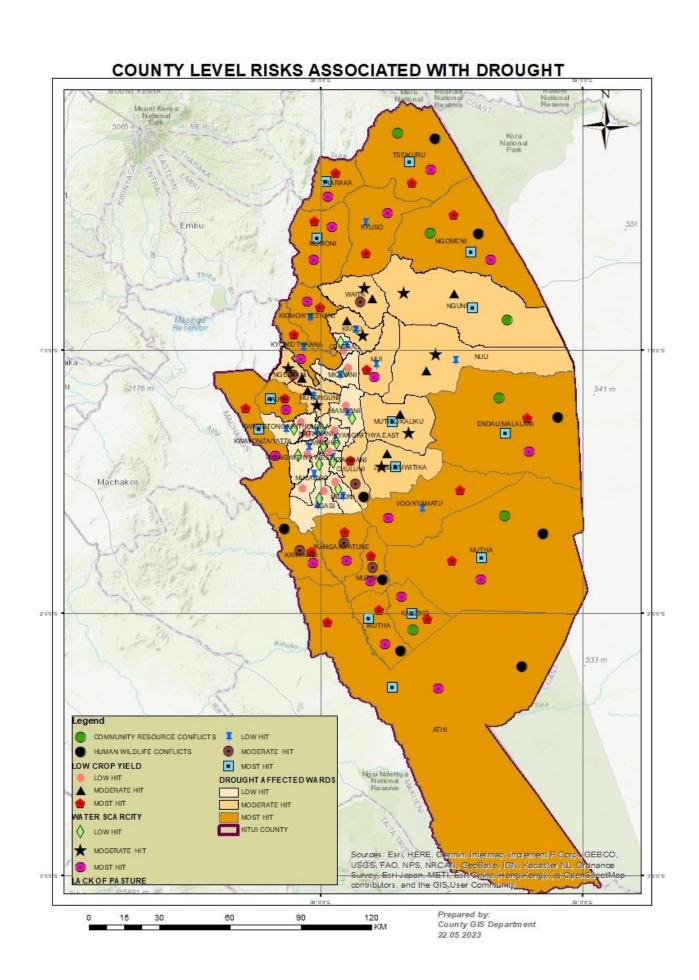
# 1. Drought

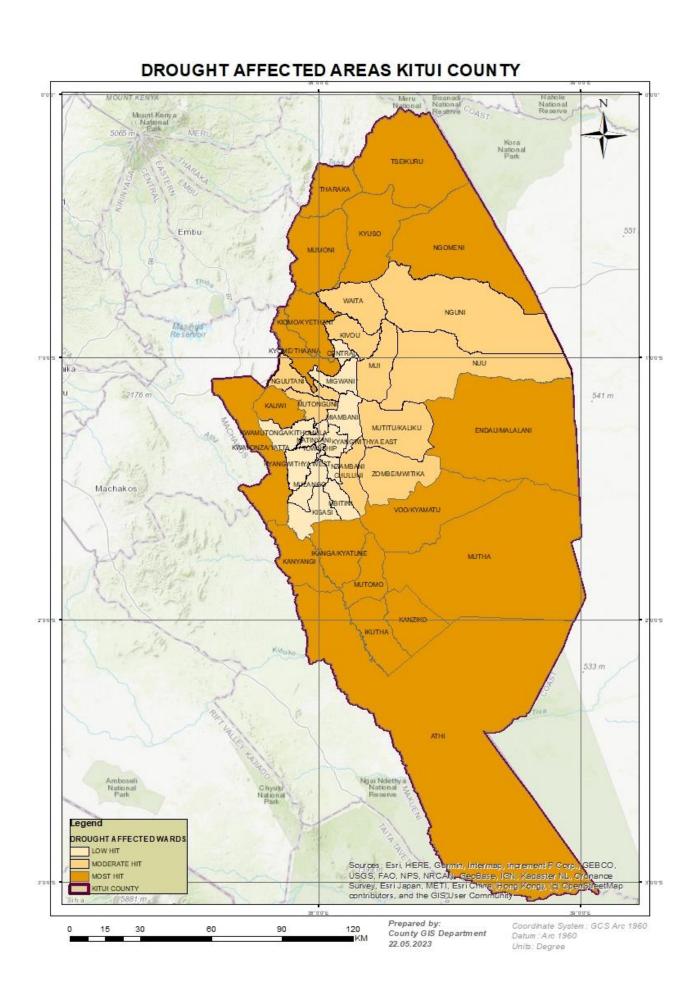
#### DROUGHT AFFECTED AREAS KITUI COUNTY



The map illustrates the intensity of drought across the County.

# County-level risks associated with drought

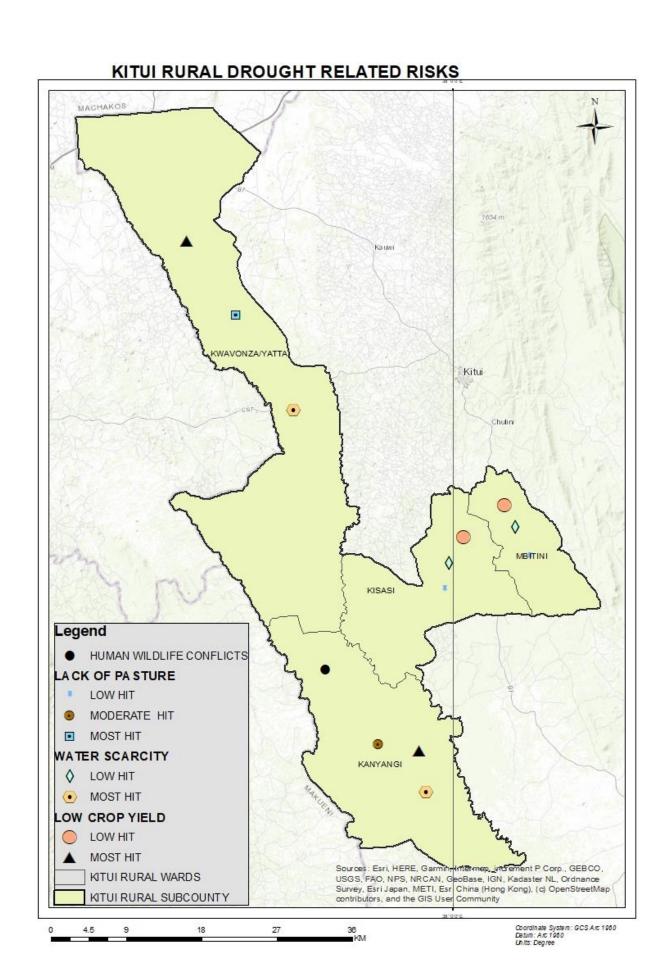


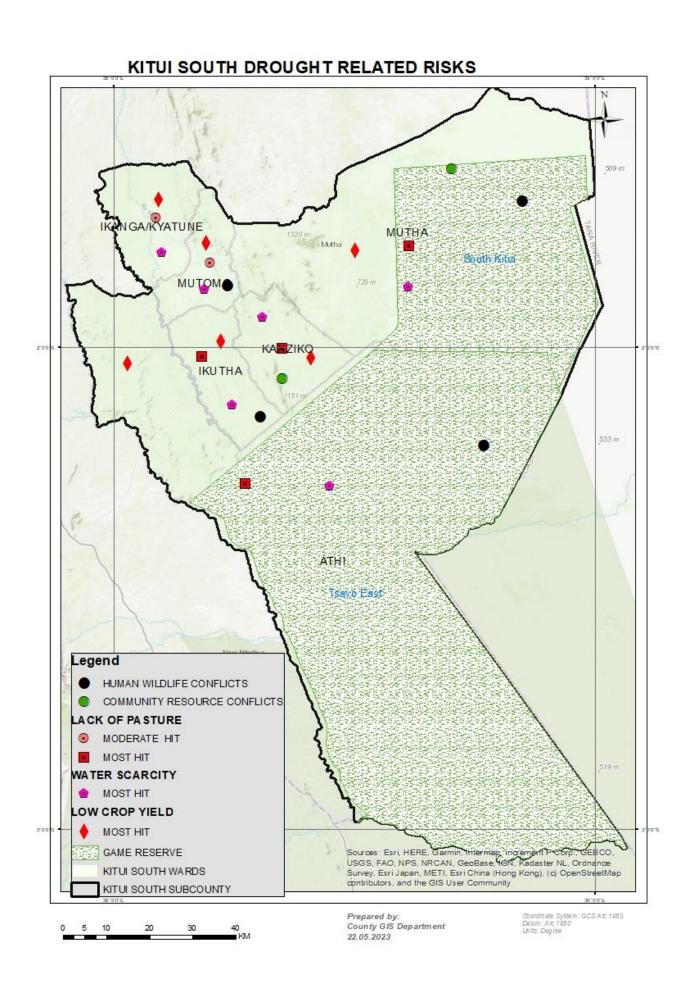


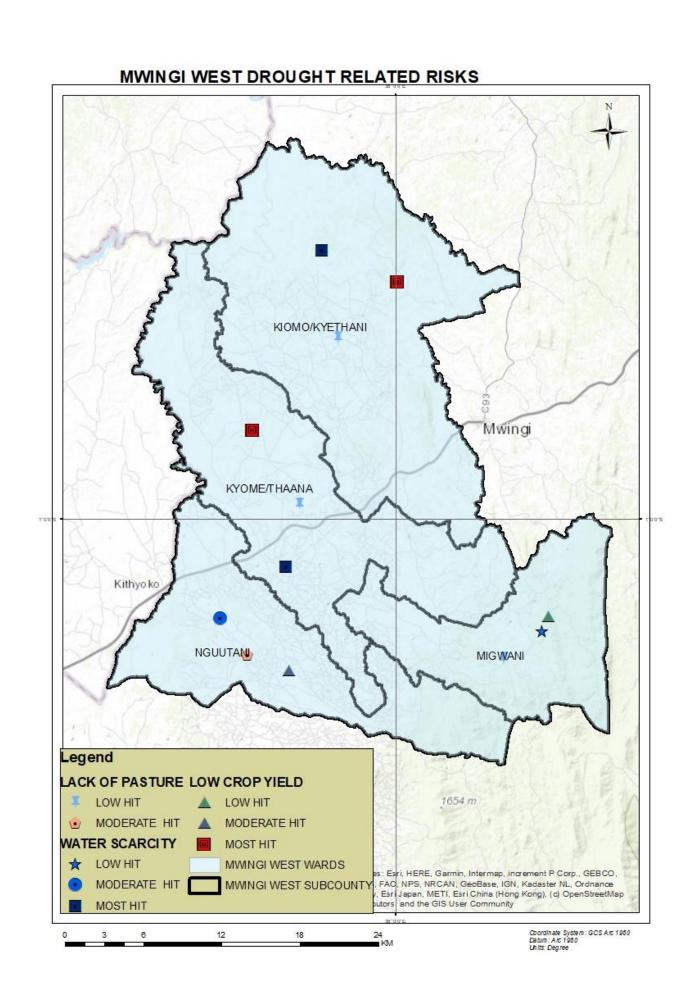
the map shows County-level spatial distribution of drought-related risks
ub-county level risks associated with drought

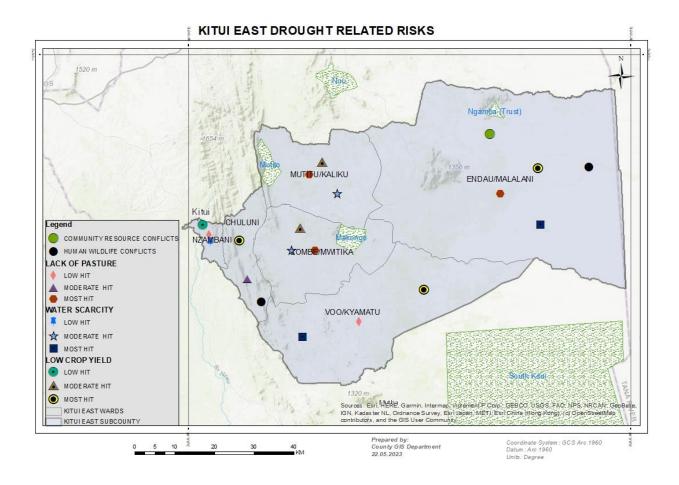
# KITUI CENTRAL DROUGHT RELATED RISKS 公 Kauwi MIAMBANI KYANGWITHYA EAST TOWNSHIP KYANGWHTHYA WAEST Chulini MULANGO Legend LACK OF PASTURE LOWHIT WATER SCARCITY LOW HIT LOW CROP YIELD Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, LOW HIT USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community KITUI CENTRAL WARDS KITUI CENTRAL SUBCOUNTY Prepared by: County GIS Department 0 2.25 4.5 13.5 18 KM

22.05.2023



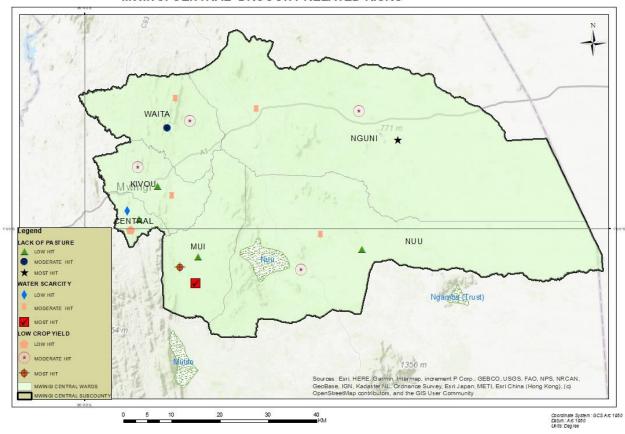


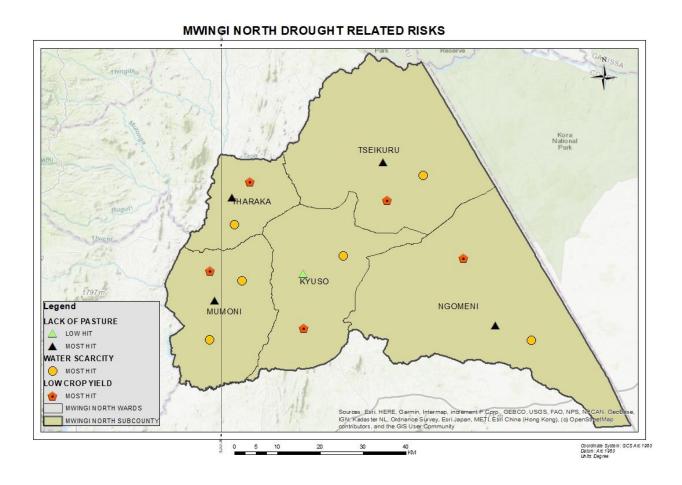




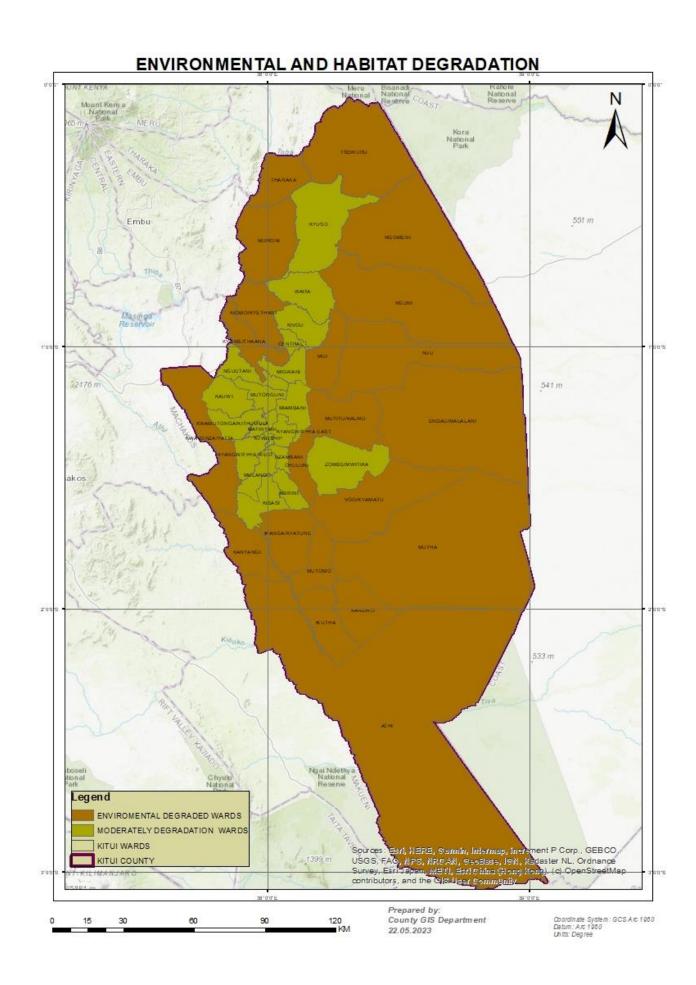
## KITUI WEST DROUGHT RELATED RISKS MUTONGUNI KAUWI Legend LACK OF PA STURE LOW HIT WATER SCARCITY tow HIT MODERATE HIT KWAMUTONGA/KITHUMULA MOST HIT LOW CROPYIELD MATINYANI 1 LOW HIT MODERATE HIT ♦ MOST HIT KITUI WEST WARDS Solloss; Esri, HERE, Garmin, Intermap, increment P Corp., ISBECO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community KITUI WEST SUBCOUNTY Coordinate System : GCS Arc 1960 Datum : Arc 1960 Units: Degree 16 KM

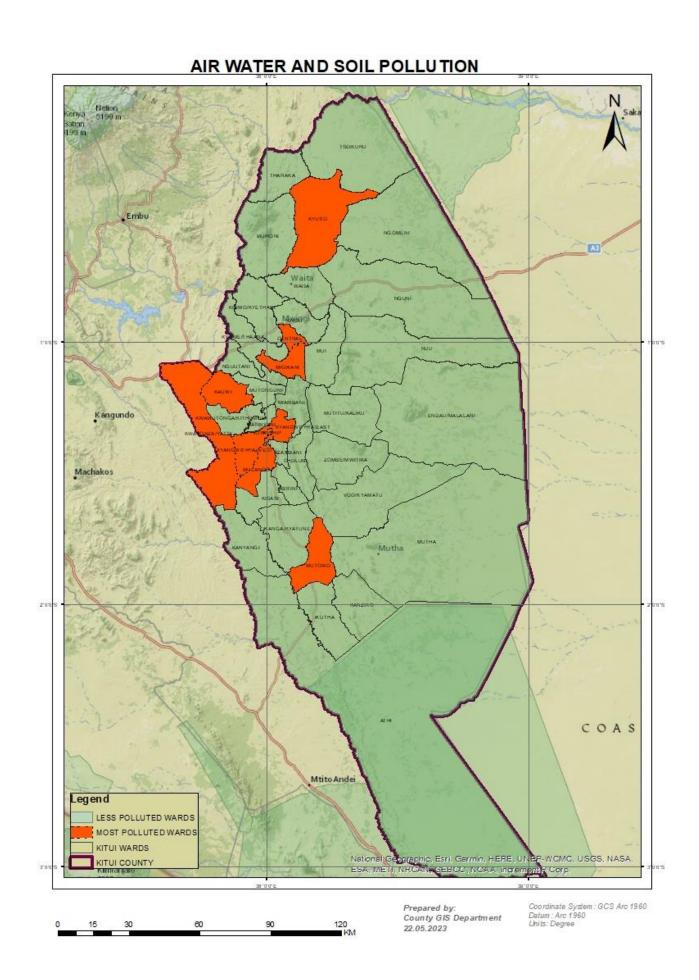
#### MWINGI CENTRAL DROUGHT RELATED RISKS



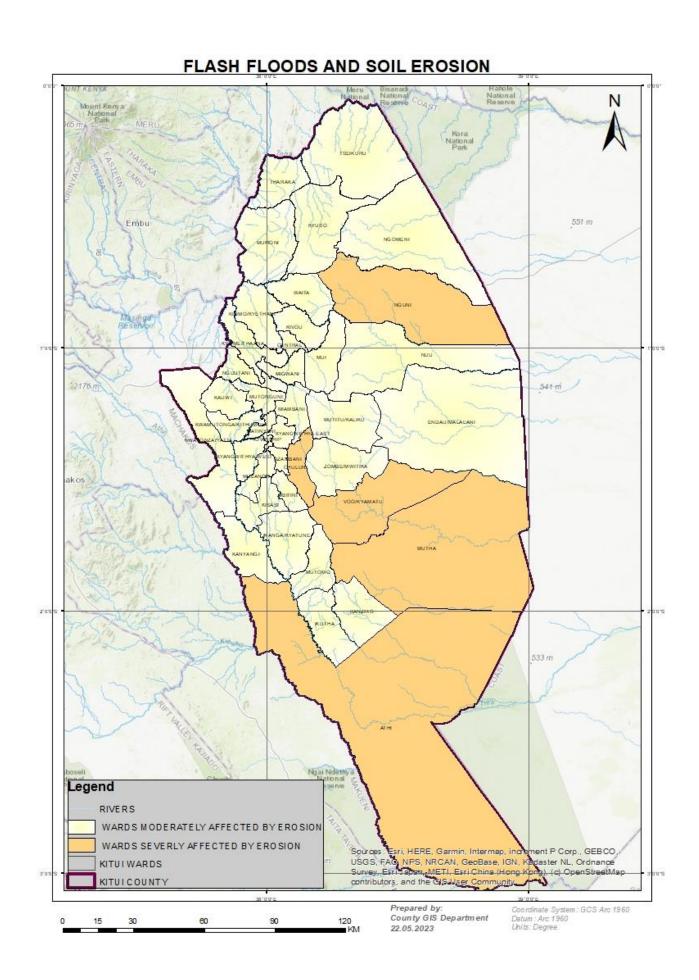


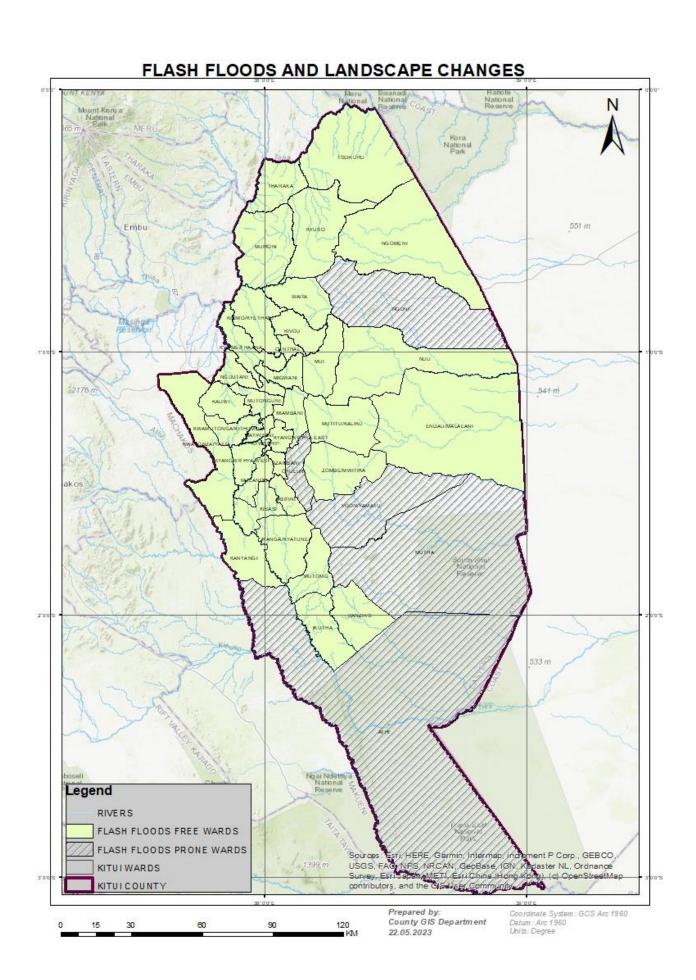
## 2. Environmental Degradation



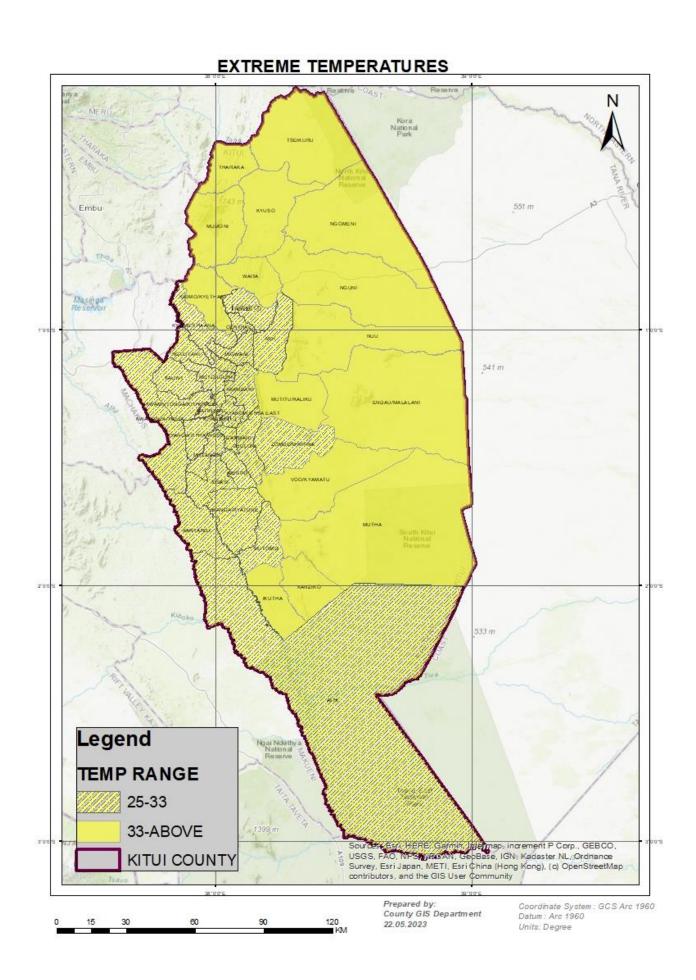


## 3. Flash Floods





# **4. Extreme Temperatures**



#### 3.0 Future climate scenarios

#### 3.1 Future Temperature Scenarios for Kenya

Temperatures in Kenya are projected to continue rising by 1.7°C by the 2050s and by approximately 3.5°C at the end of the century, (Ministry of Environment and Natural National Adaptation Resources (2016). Kenya Plan, *2015–2030.* **URL**: https://www4.unfccc. int/sites/NAPC/Documents%20NAP/Kenya\_NAP\_Final.pdf.). Additionally, the number of hot days and nights will increase, with 'hot days' projected to occur on 19%–45% of days by mid-century. Hot nights are expected to increase more guickly, projected to occur on 45%–75% of nights by mid-century and on 64%– 93% of nights by the end of the century. Cold days and nights are expected to become increasingly rare, (National Environment Management Authority (2015). Kenya-Second National Communication to the United National Framework Convention on Climate Change. URL: https://unfccc.int/sites/default/files/resource/Kennc2.pdf). Across all emissions scenarios, temperatures in Kenya will continue to rise. As shown in Fig. 01 below, under a high-emission scenario (RCP 8.5), average temperatures are expected to increase rapidly by mid-century. Increased heat and extreme heat conditions will result in significant implications for human and animal health, agriculture, and ecosystems.

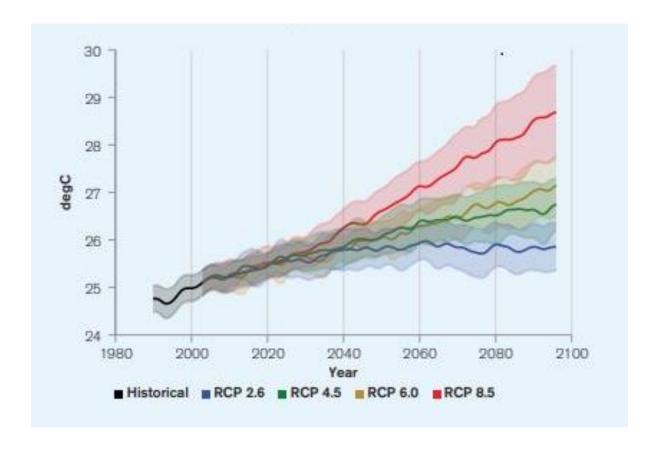


Fig. 01: Historical and projected average temperature for Kenya from 1986 to 2099. (Source: WBG Climate Change Knowledge Portal (CCKP, 2020). Kenya Agriculture Dashboard.

URL: <a href="https://climatedata.worldbank.org/CRMePortal/web/agriculture/crops-and-land-management?country=KEN&period=2080-2099">https://climatedata.worldbank.org/CRMePortal/web/agriculture/crops-and-land-management?country=KEN&period=2080-2099</a>).

### 3.2 Future temperature scenarios for Kitui County

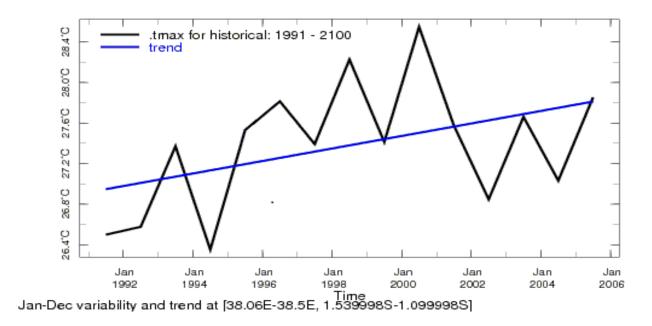


Fig. 02: Maximum Temperature for historical: 1991-2100, Source KMD Maproom Visualization Tool.

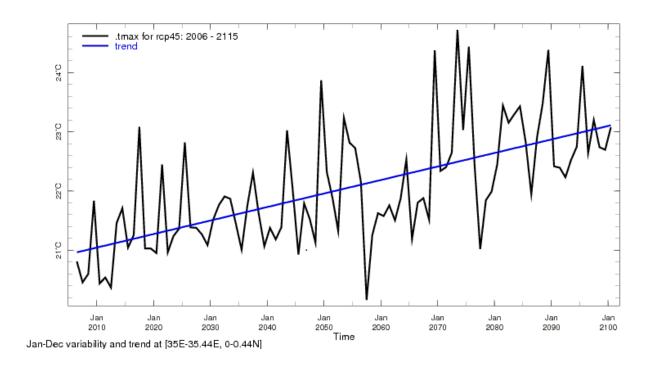


Fig. 03: Maximum Temperature for RCP45: 2006-2115, Source KMD Maproom Visualization Tool.

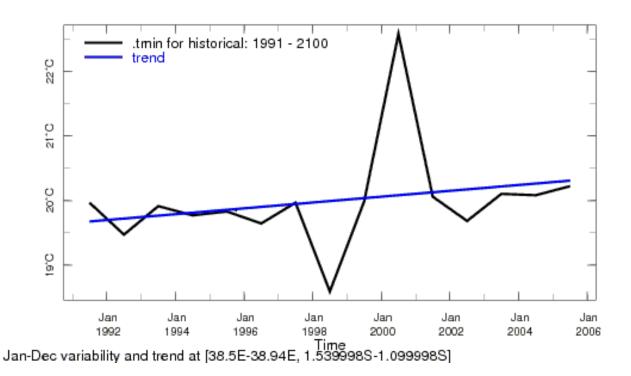


Fig. 04: Minimum Temperature for historical: 1991-2100, Source KMD Maproom Visualization Tool.

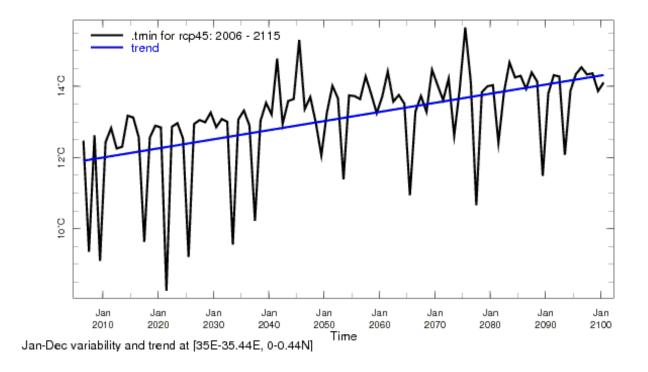


Fig. 05: Minimum Temperature for RCP45: 2006-2115, Source KMD Maproom Visualization Tool.

# 3.3 Future precipitation scenarios

# 3.3.1 Kenya

Precipitation in Kenya is projected to remain highly variable and uncertain, however average rainfall is expected to increase by mid-century, particularly during the 'short rains', which occur between October and December. Extreme rainfall events are also expected to increase in frequency, duration, and intensity and the proportion of heavy rainfall that occurs in heavy events will increase. However, the period between heavy rainfall events may increase. Importantly, rainfall in the arid zones is generally projected to decrease, (WBG Climate Change Knowledge Portal (CCKP, 2020). Kenya

Water Dashboard. Data Description. URL: https://climateknowledgeportal.worldbank.org/country/kenya/climate-sector-water). As seen in Figure 002 below, annual average precipitation is expected to increase slightly by the end of the century under a high emissions scenario (RCP8.5).

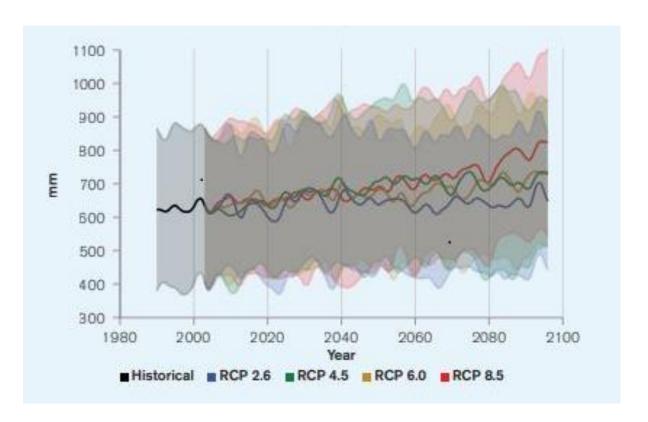


Fig. 06: Annual average precipitation trends and projections for Kenya, for 1986 to 2099. (Source: WBG Climate Change Knowledge Portal (CCKP, 2020). Climate Data-Projections. Kenya. URL: https://climateknowledgeportal.worldbank.org/country/kenya/climate-sector-water).

# 3.3.2 Kitui County

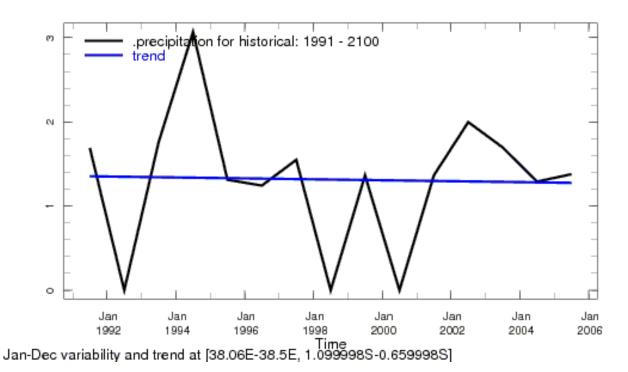


Fig. 07: Precipitation for Historical: 1991-2100, Source KMD Maproom Visualization Tool.

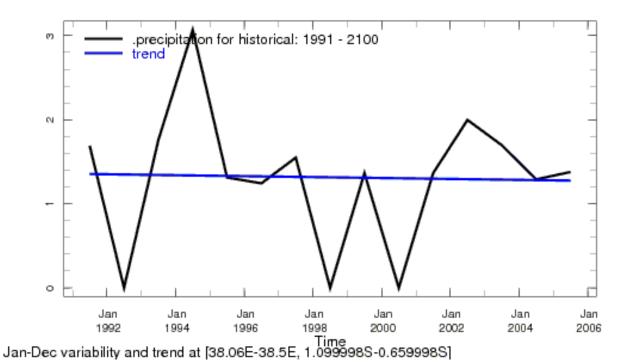


Fig. 08: Precipitation for RCP45: 2006-2115, Source KMD Maproom Visualization Tool.

- 4. Analysis of Existing Resilience/Adaptation Strategies to Current and Future Climate Risks
- 4.1 Overview of existing adaptation/resilience strategies and their effectiveness to current climate risks

**Policy, legal framework, and institutions:** Policies and regulations are important in ensuring that public resources are allocated to support adaptation and resilience actions in the County. Legal framework also provides for the establishment and institution of various structures and systems. The County Government of Kitui has formulated the Kitui County Environment and Climate Change Policy, 2023, Kitui County Climate Change Fund Regulations, 2018, and is in the process of developing the Kitui Climate Change Bill. Kitui County Charcoal Management Act, 2014 was developed and is now under review. Various policies have been developed in Kitui on several sectors related to Climate Change including the Kitui County water and sanitation policy and several agriculture-related policies. Kitui health policy focuses on the belief that investing in health is essential for a progressive County. The County has put special emphasis on the promotion of health and the prevention of illness, providing appropriate health services, adequate infrastructure, human resources, and medical supplies, and ensuring the involvement of communities in policy formulation and implementation. The policy reflects the County's commitment to being a "health service provider of excellence" that is inclusive, people-centered, and evidence-based, to create a culture of health that is driven by the community it serves, and one that is responsive to the needs of its people.

Kitui County Climate Change Fund regulations 2018 constituted the Kitui County Climate Change Unit, the steering committee, the technical committee, and established Ward Climate Change Planning Teams. The regulations also constituted Kitui Climate Change Fund where not more than 2% of County annual development budget is allocated to support climate actions in the County. Banking on the established legal frameworks, 18 community adaptation projects in 16 wards have been undertaken under the public good investment. This provided an opportunity for piloting the effectiveness of these frameworks, documenting lessons learned and best practices for scale-up.

The formulated policies and regulations need to be effectively implemented to achieve the intended purpose and goals. The County Government of Kitui has an operational Environmental Enforcement and Compliance Unit even though it needs to be strengthened through staff training, and capacity building and be supported with essential infrastructure. More staff need to be recruited for effective delivery of services.

Climate-smart technologies: This involves increasing agricultural productivity through the adoption of various technologies and practices that enhance the adaptive capacity of farmers to climatic stresses such as low soil fertility, erratic rainfall, low soil moisture content, increased temperatures, outbreak of pests and diseases among others. Some of the technologies introduced and being adopted by farmers in Kitui include:- Conservation agriculture in 4 sub-counties, on-farm water harvesting in all sub-counties, pasture development, especially in Kitui Rural, Kitui Central, and Kitui West sub-counties, livestock husbandry, E-extension services, post-harvest handling of produce and strengthening market systems. These strategies have been effective in increasing food production even during lean years.

Climate Information: Over the years, climate information has been only made available to Government and civil society organizations despite it being a critical component in decision-making to the farmers. Farmers have always doubted the scientific climate information due to its complex presentation, lack of precision, and poor dissemination of the information. In realization of these misgivings; the department of Meteorological Services in collaboration with other development agencies, has simplified and technologically disseminated climate information directly to the farmers. Kitui County through the Meteorological department Funded by the ADA-consortium has a draft Climate Information Service Plan (CISP) to help disseminate climate information to farmers.

**Development and implementation of CCIS plan**: Helps in the coordination of obtaining real-time weather information for effective decision-making. Policymakers and development partners can make decisions involving resource allocation and other strategic actions. Farmers are well guided in the choice of enterprises and how to invest especially in crop farming and pastoralism. In Kitui, the KCEP-CRAL project through the County climate information service plan gives farmers weekly climate information.

Alternative sources of livelihoods: Alternative livelihood options provide coping mechanisms during periods of climatic hazards. These alternatives in Kitui County include trade in gums & resins in Kitui South, Kitui East and Mwingi North subcounties, honey trade in Kitui South, Kamaki honey cooperative, Kitui East and Mwingi Central, wild fruits, baobab – food supplements in Kitui South and some parts of Kitui East, artisanal mining in Kitui south, Kitui east, Kitui rural, Mwingi Central and Mwingi North. The market information on these commodities remains scanty and only restricted to a few individual brokers and has remained underdeveloped. Formal employment to skilled/semiskilled/unskilled persons provides alternative livelihoods for the residents in urban areas. It's an option explored by many men and youth during climatic shocks. In return, the rural-urban migrants transfer remittances to the rural communities to provide for food and non-food items. Charcoal production although a negative adaptation strategy is a livelihood venture during lean periods.

The attempts by both County Government of Kitui through the Charcoal Management Act of 2014, and the national Government to halt this practice have not yielded much success due to the pull market factors of the energy needs in the major cities and towns.

Soil conservation measures: Environmental degradation is largely manifested through soil erosion features, loss of habitats, deforestation, and pollution of ecosystems. In response to this, the County Government of Kitui has constructed 120 sand dams and intends to have 2,400 sands by the year 2027 to curb the effects of extreme sand harvesting that has occurred in the past years. In this regard, afforestation programs by the County Government of Kitui through various initiatives like urban forestry and social forestry, rehabilitation of degraded ecosystems like hilltops, and rehabilitation of riparian areas aim to conserve and restore soils within the County. All these initiatives are in line with Vision 2030 goals of achieving 30% tree cover. From the awareness created through Government institutions, farmers have adopted on-farm water soil conservation structures such as terraces, gabions, retention ditches, farrows, and contour buds, and the programme seems to be on the right footing to attaining its objectives and goals. Construction of these soil and water conservation structures is championed by women groups at the grassroots level.

**Modern farming technologies:** To feed the ever-growing population in Kitui County there is an urgent need to expand the irrigated arable land and application of appropriate farming technologies. Post-harvest farm produce handling structures are inadequate in Kitui especially the use of agro-Z bags. Different value chains are embracing value addition in farm produce such as honey, mangoes, green grams, baobab, tamarind, and aloe vera. These strategies will continue to play a key role in ensuring the County is food secure. Some of the available modern farming technologies have faced slow adoption by farmers such as greenhouse farming, drip irrigation, and zero grazing.

Water harvesting structures: The average annual rainfall of 400 mm is inadequate for both domestic and agricultural use. Taking advantage of the wide network of seasonal streams and capitalizing on surface flow during the rainy seasons, the County has initiated strategies to promote on-farm water harvesting, construction of sand dams, excavation of earth dams, sinking of strategic boreholes, and rainwater harvesting across the County. The County has also invested in rock water catchment and river water abstraction structures. The river and stream network provides a unique opportunity to increase access to water for communities in this County. In other areas, farmers have embraced on-farm water harvesting through farm ponds.

Waste management on reduce, reuse, and recycle technologies: Solid waste in Kitui is produced majorly in the two main municipalities. The County has invested in scapeloaders and waste trucks deployed in the municipalities and main towns. There are also dumpsite resource miners recovering materials from the dumpsites for paper, scrap metal industries, pig feeds, and manure for farms. Recycling of waste paper is undertaken by youth groups to form sculptures sold as artwork for livelihood. Water refilling stations are scaling up in Kitui leading to the reuse of plastic bottles, a strategy that has led to better waste management. The establishment of kitchen gardens at the household level has led to the reuse of kitchen waste water. In the absence of sewer lines, the urban population has adopted the use of septic tanks and soak pits in the management of liquid waste.

# 4.2 Effectiveness of adaptation/resilience strategies to future climate risks Analysis of adaptation/ resilience strategies.

The wards prioritized 4 hazards which are drought, environmental degradation, flash floods, and extreme temperatures. These hazards have greatly impacted the agricultural sector, water sector, environment, infrastructural, and health sectors. The County experiences both hydrological and agricultural drought. The prolonged dry spells affect productivity in the agricultural sector. Poor rainfall distribution across the rain seasons results in low crop yield and poor pasture development. The rainfall

received is not adequate to fill up water harvesting structures. This is further compromised by high evaporation rates due to extreme temperatures. The water stored does not resonate with water demand leading to water scarcity. The communities prioritized the excavation of more climate-proof earth dams, sand dams, provision of water tanks, sump wells, and extension of water lines. Impacts of environmental degradation have been experienced in the County through wildfires during the dry season, especially in Mutito Hill forest and the most recent in Yatta-Kwa Vonza ward. Soil erosion has been experienced in the County leading to gullies and siltation of water bodies posing a threat to water harvesting structures, farm lands, grazing areas, and forests. To tackle environmental degradation, the community proposed rehabilitation of existing gullies, planting of cover crops and trees, water harvesting at both the domestic level and in public facilities, and enforcement of relevant policies to protect water catchment areas.

Major rivers in Kitui County such as Thua, Mui, Enziu, and Tiva in some areas traverse through low land. During rainfall seasons of high intensity, the rivers break their banks along the lowland areas due to increased volumes. Occasionally, some areas with black cotton soils experience flooding as a result of rainfall events of high intensity. In urban areas flash flooding is experienced due to clogging of storm water drainage systems. Increasing public awareness, developing policies on the management of

riparian land, regular unclogging of drainage systems, and investing in early warning

systems are great strategies that can avert the negative effects of flash floods.

Extreme temperatures have led to the emergence of crop and livestock diseases that

are resistant to existing pesticides. Human diseases have also increased across the

wards over the years. These increased temperatures have led to loss of biodiversity

and a decrease in soil fertility. Capacity building of community health volunteers for

early detection of human diseases to enhance preventive measures on human

diseases. Capacity builds farmers on biological disease and pest control and invest in

disease surveillance and monitoring systems. Investing in early warning systems and

increased public awareness are some of the proposed strategies to help cushion the

communities cope with this climatic hazard.

Table 4: Strategies to future climate risks

Hazard	Livelihood/Economi	Climate Resilience	Stakeholder Group Applying	Gender and Social Inclusion
	c System	Strategies	the Strategy	information
Drought	Crop production	Climate	Farmers, County Government,	Women are highly involved in
		Smart Agriculture; On-farm water	Agricultural Extension Officers,	agricultural productivity
		harvesting technologies	CSOs, FBOs	
		Adoption of drought-resistant seeds	d Control of the Cont	Women are highly involved in agricultural productivity
			Farmers, Agricultural Extension	,
			Officers, CSOs, FBOs	
	Livestock Production	Pasture development; Breed	Farmer; County Government,	Men are more dominant in livestock
		upgrade; Pests and diseases	Veterinary Officer; Traders; Banks;	such as cattle, goats and sheep
		management; Livestock insurance;	Red Cross; KALRO; CSOs, FBOs	while women control poultry,

	Marketing; Processing & value		
	addition.		
Water supply systems	Rain water harvesting technologies;	Farmers, Civil society, County	Women and youth are more
	Surface/runoff harvesting;	Government, FBOs	involved in looking for water in the
	Underground drilling;		society than men
Trade and Industry	Value addition; market information	Farmers; Traders, County	Men are more involved in trade and
	sharing;	Government,	marketing than women. Women are
			more involved in processing and
			value addition
Medium and Small	Formation of Cooperative societies;	Business community, cooperatives,	Most self-help groups are formed by
Enterprises	Village Savings Schemes; Financial	self-help groups	women

	Access through empowerment	Youths are less involved in self help
	grants.	groups
Ecotourism	Identification and development of Business community, local	Women are more involved in
	ecotourism sites and facilities; Relief communities, County Government,	income-generating activities like
	supplies to wildlife; establishment of FBOs, CSOs	basketry and weaving
	conservancies, creation of wildlife	
	corridors, population management,	
	water for wildlife; Ecotourism sites	
	marketing;	
Environme Crop production	Agoforestry; Integrated Pests and Farmers, Agricultural and Forest	Women are highly involved in
ntal	diseases management; Trainings & Extension Officers, CSOs, FBOs	agricultural productivity
	capacity building; landscape	

Degradatio		restoration,	FMNR,	agroecology				
n		technologies,	CSA	A, Soil				
		management,	integrated	d soil fertility				
		management	(ISFM)	; Capacity				
		building;						
	Apiculture	Afforestation	and	forest	Farmers,	Foresters,	Extension	Men and youth are more involved in
		management,	FMNI	R, water	officers, CS	SOs, FBOs		terracing,
		harvesting, va	alue additi	ion, Riverine				
		protection	and c	onservation;				
		creation an	d mana	gement of				
		forests; soil a	nd water o	conservation				

	Forestry	Afforestation programs, Forest Foresters,	community forest	Men are more involved in forestry
		product regulations, environmental association,	farmers, extension	than women
		protection services, FBC	Os, CSOs	
Extreme	Livestock Production	Pasture development; Breed Farmer; Vete	erinary Officer; Traders;	Men are more dominant in livestock
Heat/		upgrade; Pests and diseases Banks; Red	Cross; KALRO; CSOs	such as cattle, goats, and sheep
temperatur		management; Livestock insurance; (ADSE, Carit	as, KDC)	while women control small livestock
es		Marketing; Processing & value		such as poultry,
		addition,		
	Crop production	Climate Farmers,	County Government,	Women are highly involved in
		Smart Agriculture; On-farm water Agricultural	Extension Officers,	agricultural productivity
		harvesting technologies CSOs, FBOs		
		Adoption of drought-resistant seeds		

	Farmers, Agricultural Exter	sion
	Officers, CSOs, FBOs	

#### **CHAPTER FIVE (5)**

KITUI COUNTY CLIMATE STRATEGIC ADAPTATION INVESTIMENTS/ACTION PRIORITIES.

Investment in climate adaptation has the potential to bolster growth by helping to avoid future losses, and generate positive economic gains through innovation, and social and environmental benefits.

Adaptation investments help reduce negative economic impacts from Climate Change and help transform communities to become more resilient, more innovative, and better prepared to cope with a range of climate challenges that emanate from global warming.

The hazards and associated risks identified during the participatory climate risk assessment exercise cut across all sectors. To effectively address these hazards and risks there is a need for multi-sectoral climate adaptation strategies and investments.

Effective adaptation strategies will include but not be limited to;

# Participatory policy development.

Legal framework will provide for the establishment and institution of various structures and systems. These legal frameworks will oversee the mainstreaming of climate

actions, ensure public resources are allocated to support climate adaptation and resilience.

#### **Climate Information Service.**

Agriculture is the main economic venture of the County. The sector is highly vulnerable to the impacts of climate variability and change.

Providing effective climate information services will ensure our climate-sensitive sectors will be able to cope better with increased variability, resulting in greater agricultural productivity while building resilience and improving livelihoods.

The provision of climate information services will involve packaging up, interpreting, and distributing climate data on variables such as temperature, rainfall, soil moisture, and extreme weather events. This will help farmers in making decisions on what and when to plant.

Accurate data analyses will also help County policymakers to integrate climate policies into decision-making during the economic and development planning process. The County will prepare a contingency plan to respond to extreme weather eventualities by adopting immediate and longer-term interventions such as investing in infrastructure that is designed and executed in light of the current and changing climate.

# Adoption of climate-smart agriculture technologies.

The agricultural sector is at the forefront of the climate crisis in terms of being a significant source of greenhouse gas emissions while also being adversely impacted by rising temperatures, droughts, and floods.

Climate-smart agriculture (CSA) is guided by three principles; reduced Emissions (mitigating greenhouse gas emissions), enhanced resilience (adapting to Climate Change), and increased productivity (contributing to food and nutrition security). It encompasses a broad array of agricultural technologies and practices that include;

- Drought-tolerant crops
- Conservation agriculture( No-till)
- Agroforestry
- soil conservation.

Therefore, the promotion of CSA will decrease the vulnerability and improve the production capacity of the small-scale farmers within the extremely drought-stricken wards of the County.

# Water conservation structures and protection of water catchments.

Water serves as a Fundamental link between the climate system, human society, and the environment. It is the primary medium through which Climate Change influences Earth's ecosystem, livelihood, and well-being of communities.

The climatic hazards of Extreme temperatures and other weather events (flash floods) are projected to affect water availability, distribution of rainfall, river flows, and groundwater recharge.

Therefore, investments in watershed management will greatly impact on increased food production, availability of water, improved hygiene and sanitation as well as environmental sustainability.

Climate Change adaptation strategies for watershed management will include;

- Construction of sand dams
- Construction of sump wells
- Landscape restoration
- Excavation of earth dams
- Construction of rock water catchments.
- Development and implementation of water sub-catchment management plans (SCMPS)
- Spring water protection
- Capacity building of water resource users' associations (WRUA'S)

Afforestation and restoration of degraded ecosystems.

Afforestation is one of the most effective means of tackling ecosystem degradation.it reduces the impact of desertification, supports habitat ecosystems, slows down expansion of barren lands & soil erosion, regulates water flow & hydrological ecosystems services. It helps in carbon sequestration from the atmosphere .

The County can only achieve 30% tree cover by promoting forest sector conservation interventions such as;

- Capacity building of Community Forest Associations.
- Sustainable land use management plans to restore denuded lands.
- Establishment of community tree nurseries
- Promotion of tree growing.
- Promote Urban Greening.
- ❖ Re –afforestation of County forests and hills through
- Development of County forest and woodland management plans
- Reseeding programs
- Farmer managed natural regeneration
- Promotion of commercial and social forestry
- Establishment of forest buffer zones

Strengthening of public health systems.

Existing shortfalls in providing basic health services cause much of the County's population to be exposed to climate-sensitive health hazards. Adaptive investment is needed to strengthen key functions, and to ensure that the health sector is ready to react to the challenges posed by Climate Change, natural disasters and disease epidemics.

Building the resilience of health systems to Climate Change involves strengthening the preventive and curatives service provision. This enables the health sector to respond to climate related hazards. This will be achieved through;

- Increasing and capacity building of health personnel
- Provision of drugs
- Improving accessibility to health facilities
- Recruitment and training of CHV's
- Equipping of health facilities
- Promote sustainable waste management practices in urban areas.
- Promotion of disease surveillance and monitoring systems,
- Promotion of mobile clinics

Promote the adoption of clean energy sources.

The use of dirty energy sources is the main culprit in the emission of greenhouse gases that contribute to Climate Change. Climate Change mitigation therefore dictates a shift to green energy sources and energy conservation technologies. This will be achieved through;

- ❖ Awareness creation and sensitization on energy conservation
- ❖ Adoption of efficient machines, equipment, and plants

(NB: Enclosed in Annex TABLE 14 is the ward specific climate adaptation strategies for the entire County.)

Ward: Kauwi Priority 1 (Drough	t)	Priority 2 (E Degradation)	Priority 2 (Environmental Degradation)		c health system
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Desilting of 13 earth dams	Kwa samba Matinga, Kavuta, Kaiveti, Kwa Nzuki, Kwa Kyondo, Kwa Nguli, Muthumula, Kisayani Mangelu Kwa Maondu, Kasue KaVoo, Maukuni	Conservat ion of the catchment areas of the 13 earth dams	Matinga, Kavuta, Kaiveti, Kwa Nzuki, Kwa Kyondo, Kwa Nguli, Muthum ula, Kisayani Mangelu Kwa Maondu, Kasue KaVoo, Maukuni	Construct 5 new health facilities	Kyenge Kivani Mutini Katutu Mutanda
		Establish 6 tree	1.1000/110/111	Household-level capacity building,	Mutini village,

		nurseries of 30,000 seedlings of assorted species in each village; Mutini village, Kivani Village, Mutanda village, Katutu village, Kyenge Village, Kauwi		Immunization campaigns, Screening diseases, sensitization and awareness creation on health matters	Kivani Village, Mutanda village, Katutu village, Kyenge Village, Kauwi village
		Kauwi			
Supply 10,000m <sup>3</sup> water tanks to public institutions	Primary schools Public health facilities	village Rehabilita ting and restoring the degraded areas	Degrade d sites in Mutini village, Kivani Village, Mutanda village,		

required		on required		n required	
Action or Intervention	Where	Action or Interventi	Where	Action or Interventio	Where
Priority 1 (Drought)	1	Priority 2 (Envi Degradation)	·	Priority 3 (Public I strengthening)	<u>,                                      </u>
Chuluni			<u> </u>		
Ward:					
		groups			
		women			
		and Kauwi			
		Kyenge,			
		s; Mikuyuni,			
	Kauwi village	champion			
tolerant crops	Kyenge Village,	Change			
drought	Katutu village,	Climate	Kauwi		
promote	Mutanda village,	nt and	Kyenge,		
Capacity build farmers and	Mutini village, Kivani Village,	Support environme	Mikuyu ni,		
G '- 1 '11	3.6 111		Kauwi		
			Village,		
			Kyenge		
			Katutu village,		

Construction	Nguuni	Rehabilita	Thua	Construct 5	Kangvu
of earth dams	Kaluulu	tion of	Kvuo	new health	Kwa-wewa
of earth dams	Kiliku	denuded	Kisiro	facilities	Kwa Mutei
	Kwa Anoni	sites	Kiongw		Kanzauwu
		through	e		Kiongwe
		tree	Mungur		
		growing	e		
Construction	Kwa-nzangu	Sustainabl	Thua,	Household	Ngungi
of 6 sand	Kyamuvyu	e land	Kvuo	level	village
dams	Mililuni	managem	Kisiro	capacity	Kyanzai
	Nzuni Nziu	ent for soil	Kiongw	building,	village
	Kwa Musengele	conservati	e	sensitization	Kenze
		on	Mungur	and	village
			e	awareness	Kyalele
			Ngungi	creation on	village
			Kyalele	health and	Kanduti
				nutrition in	village
				all villages	Ithumula
					village
Capacity build	Ngungi village	Establish	Ngungi		
6,000 farmers	Kyanzai village	6 tree	village		
on CSA	Kenze village	nurseries	Kyanzai		
practices and	Kyalele village	in 6	village		
promote	Kanduti village	villages	Kenze		
growing	Ithumula village		village		
drought			Kyalele		
			village		

tolerant crops		Kanduti	
in 6 villages		village	
		Ithumula	
		village	
	Capacity	Ngungi	
	build and	village	
	sensitize	Kyanzai	
	6,000	village	
	farmers in	Kenze	
	all villages	village	
	on	Kyalele	
	Climate	village	
	Change	Kanduti	
	and	village	
	environme	Ithumula	
	ntal	village	
	protection	, mag	
	Capacity	Ward	
	build the	level	
	Ward	ievei	
	Climate		
	Change		
	Planning		
	Team		
	1Caiii		

Ward: Ikanga/Kyat une Priority 1 (Drough	t)	Priority 2 temperatures	extreme	Priority 3 (strengthening)	Public health
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Intervention required	Where
Construction of Earth Dams	Kaloyo Kooi Ndilyani – kasambuya Ndivuni Kaveta Nzalani Muliluni	Training 7,000 farmers on the use of certified seeds, soil fertility Provision of climate informatio n services to at least 7,000 farmers Recruitme nt of 7 additional agricultur	Ithumula Kathung u Kyatune Ndatani Yongela Nduund une Makele	Operationali ze 7 health facilities, construct 7 new health facilities in all villages	Ithumula Kathungu Kyatune Ndatani Yongela Nduundune Makele

		extension	
		officers	
Construction	Menzai		
of Sand dams	KamuNguni		
	Ngunga		
	Semea makele		
	Nzeeu		
	Semea-kathungu		
	Nzeeu –		
	muumbuni		
Water	Extension from		
Pipeline	Kiangwa to		
extension	Kaveta Kanguu		
	Pipeline		
	extension from		
	Ithumula to		
	Windundu and		
	rehabilitation of		
	kwa wangu line		
Capacity	Ithumula		
building and	Kathungu		
training 7,000	Kyatune		
farmers on	Ndatani		
CSA in all	Yongela		
villages	Nduundune		
	Makele		

Training farmers on	Ithumula Kathungu					
sustainable	Kyatune					
livestock	Ndatani					
keeping at	Yongela					
village level	Nduundune					
	Makele					
Ward:						
Ikutha/Kasal						
a						
Priority 1 (Drought)		Priority 2 (h conflict)	Priority 2 (human-wildlife conflict)		<b>Priority 3 (Human Diseases</b>	
Action or	Where	Action or	Where	Action or	Where	
Intervention		Interventi		Interventio		
required		on		n required		
		required		_		
Capacity	Kasala	Conduct	Kasala,	Construct 7	Kasala	
building 7,000	Kiangu	anti-	Ngwate,	health	Kiangu	
farmers in all	Kyoani	poaching	Nzamba,	facilities in	Kyoani	
villages on	Maani	sensitizati	Ndili,	all villages	Maani	
CSA	Ngwate	on and	Maaini	Operationali	Ngwate	
	Ndili	awareness		ze all health	Ndili	
	nzamba			facilities	nzamba	

Extension of		Use of		
Kasala market		alternative		
water project		materials		
Construction		for		
of 7 earth		fencing		
dams in all		Improve		
villages		on		
		response		
		mechanis		
		ms by the		
		KWS in		
		the		
		affected		
		areas		
Training	Kasala			
7,000 farmers	Kiangu			
on	Kyoani			
agroforestry	Maani			
Promote tree	Ngwate			
growing in 7	Ndili			
villages	nzamba			
Provide				
climate				
information				
services to				
7,000 farmers				
in all villages				

Ward: Kanyangi Priority 1 (Drought)		Priority 2 (E Degradation)			nn Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of earth dams	Nzambia (Mwanzia) NZawa (Proposed) Kiseuni (Mue Makosi) Kitooni (Kwa Kamuti) Kanyongonyo (Isiuni) Kalulini (Makovo) Kanyangi (Kivelenge)	Establish ment of 6 tree nurseries with a total of 180,000 assorted species of seedlings	Kanyang i Kanyon gonyo Kitooni Kiseuini Kalulini nzambia	Operationali ze and equip health facilities	Syomakand a Nzambia Ngomoni Kitooni
Construction of sand dams	Nzambia (Kwa Katulu)	Trainings on sustainabl	Kanyang i	Construct more health facilities	Kathiini Kalulini H.C

and shallow	Kanyongonyo	e land	Kanyon		Kanyongon
wells	(Musoloni)	managem	gonyo		yo
	Kitooni (Kwa	ent,	Kitooni		Kiseuni
	Kimanzi)	rehabilitat	Kiseuini		Syomunyu
	Kiseuni (Elijah	ion of	Kalulini		
	Kitungu)	degraded	nzambia		
	Kalulini (Kwa	lands, and			
	Kilungu)	restoration			
		activities			
Construction	Tiva			Capacity	Kanyangi
of sump wells	Kiesuni			building,	Kanyongon
	Kalulini			training,	yo
	(Ngomoni)			sensitization	Kitooni
				and	Kiseuini
				awareness	Kalulini
				creation on	nzambia
				health and	
				nutrition	
Construction	- Kanyongony				
of farm ponds	o				
	- Kiseuni				
	- Nzambia				
	- Kanyangi				
	- Kalulini				
	- Kitoono				

Installation of	Schools (One per				
rain water	village)				
harvesting	Masimba				
tanks	(Kitooni)				
	Kathiani				
	(Kiseuni)				
	Mwangeni				
	(Kalulini)				
	Kyunduni				
	(Kanyongonyo				
	Yamunyu				
	(Nzambia)				
	Kangaatu				
	(Kanyangi)				
Ward:					
Kanziko					
Priority 1 (Drought)		Priority 2 (Envir	ronmental	Priority 3 (Human D	iseases
		Degradation)			
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required		on		n required	
		required			
Construct 2	1-mivuni	Deforestat	Within	Completion	-kakithya
mega dams	1-kituvwi	ion	Kanziko	and	-vyulu
		awareness	ward	equipping	-mwanianga
				of	

		Use of	uncomplete	-kakindu
		alternative	d	-vutu
		materials	dispensaries	-ndilili
		for	-construct	-kyanyaa
		fencing	more health	
		Better	centers	
		services	Upgrading	
		by the Kfs	of existing	
		Capacity	and	
		building,	equipping	
		planting	these	
		trees	facilities	
		20000	-deploy	
			more staffs	
Construct-5	1-mwainaiga			
earth dams	1-kivanndeni			
	1-kyanyaa			
	1-keutunda			
	1-simisi			
Construct 50	10-keutundu			
sand dams	10-			
	kivandeni/mwnia			
	nga			
	10-ndilili/mivuni			
	10-			
	kituvwu/ilamba			

	10-Ekani/simisi				
Ward: Kiomo/Kyeth ani					
Priority 1 (Drought		Priority 2 (Crop pests and diseases)		Priority 3 (Huma	n Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Afforestation, improved farming methods, Provision of climate information for planning. initiate income generating activities More veterinary officers	Kiom Mbondoni Kavuvwani Kyethani Karura kairugu	Train more than 6,000 farmers  Explore irrigation potential	Kiomo Mbondo ni Kavuvw ani Kyethan i Karura kairugu	Regular treatment Create awareness Improved sanitation Improve health facilities and provide adequate/ski lled personnel in all public	Kiomo Mbondoni Kavuvwani Kyethani Karura kairugu

Preserve			health	
pasture			facilities	
Construction				
of water				
sources,				
market				
linkage				
Regular	Kiomo			
spraying	Mbondoni			
Construction	Kavuvwani			
of cattle dips	Kyethani			
and more	Karura			
water points, -	kairugu			
regular				
vaccination,				
frequent				
training of				
personnel				
Improvement				
of information				
flow				
Select breeds				
not				
susceptible to				
diseases				
Improve on	Karura			
safety for				

farmers and women around the crocodile and hippos infested areas					
Ward: Yatta/Kwa Vonza Priority 1 (Drought	t)	Priority 2	(Livestock	Priority 3 (Huma	nn Diseases
, , , , , , , , , , , , , , , , , , ,	<u> </u>	diseases)		• `	
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Intervention required	Where
Revive IlikaAthi water project, do afforestation, introduce energy saving jikos,extend masinga phase 2 pipeline to	Ilika Kanyoonyoo Mwitasyano Kawongo Nthongoni Katothya	Constructi on of cattle dips, awareness creation about the diseases, training paravets, vaccinatio	Ilika Kanyoo nyoo Mwitasy ano Kawong o Nthongo ni Katothy	Training the community on preventive health and in particular about water sanitation and hygiene	Ilika Kanyoonyo o Mwitasyano Kawongo Nthongoni Katothya
kanyoonyoo		n, build	a		

location, tap	earth dams	Build more
water from	and	health
Mwitasyano	slaughter	facilities
river to serve	houses,	
Kanyoonyoo,	initiation	
tap water from	of	
Tiva river to	afforestati	
serve	on and	
Kawongo and	establishm	
Nthongoni	ent of tree	
locations.	nurseries	
Construct new	and tree	
earth dams at	growing	
the following	programs	
river streams -		
Katothya,		
KinuunuKasa		
suni, Kyango,		
Ngaindethya,		
mumbunimasi		
mbani. Drill		
boreholes:		
equipping and		
extensions at		
the 52 sites,		
construct sub		
surface dams,		

Ilika				
Kanyoonyoo				
•				
	Ilika Kanyoonyoo Mwitasyano Kawongo Nthongoni Katothya	Kanyoonyoo Mwitasyano Kawongo Nthongoni	Kanyoonyoo Mwitasyano Kawongo Nthongoni	Kanyoonyoo Mwitasyano Kawongo Nthongoni

Construction	Ilika		
of cattle dips,	Kanyoonyoo		
awareness	Mwitasyano		
creation about	Kawongo		
the diseases,	Nthongoni		
training	Katothya		
paravets,			
vaccination,			
build earth			
dams and			
slaughter			
houses,			
initiation of			
afforestation			
and			
establishment			
of tree			
nurseries and			
tree growing			
programs			
Ward:			
Kyome/Thaa			
na			

Priority 1 (Drought)		` `	Priority 2 (Environmental Degradation)		an Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of Earth dams	Kwa mbuta Katukoni Kwa muli- Mbooni Ndaluni Ngomeni Nguuni Kanyonyooni Kwa tirya Kwa kitema Kwa muli vava Kwa sau kata Mavui ED Kwa silu	Tree growing and establish tree nurseries in every village	Kanyaa Thitani Winzyei Musuani Thokoa kyome	Construct a new health facility	Mavalani
Construction of sand dams	Kwa mwanga Kamumbuni Masaani-kwa vele Kwa mbutu Kwa mwandi	Create awareness , sensitizati on, trainings and	Kanyaa Thitani Winzyei Musuani Thokoa kyome	Equip health facilities	<ul><li>Wiki</li><li>vuv</li><li>wa</li><li>Kitul</li><li>ani</li></ul>

	Tyaa makunu	advocacy	• Thon
	Mavuu	points	zwe
Installation of	Kasavini		
water	primary		
harvesting	Kamutekeo		
tanks	primary		
	Kilela		
	primary		
	Kinyaa		
	primary		
	Kyome		
	primary		
	Kanyekini		
	dispensary		
Rock	Kathonzooni		
catchment	rock		
water	Kisee rock		
harvesting	Kalwala rock		
	Tumila rock		
	Kwa		
	syangalyo		
	rock		
Training	Kanyaa		
farmers on	Thitani		

sustainable	Winzyei				
livestock	Musuani				
keeping, CSA	Thokoa				
	kyome				
Ward: Matinyani					
Priority 1 (Drough	t)	Priority 2 (E Degradation)	Priority 2 (Environmental		nn Diseases
Action or Intervention	Where	Action or Interventi	Where	Action or Interventio	Where
required		on required		n required	
Construction	Kathuma village	Tree	Kyondo	Constructio	Katheuni
of earth dams	Kwasonge	growing,	ni	n of a new	village
	Syozangu	establishm	Katheun	health	
	Kauma village	ent of tree	i	facility	
	Kwa mulwa	nurseries	Kathum		
	Kavumbu	in all	a		
	ndiangu kiwuni	villages,	Kaumu		
		sensitizati	Kaliman		
		on and	i		
		awareness	Maseki		
		on			
		environme			

		ntal		
		protection		
Desilting of	Katheuni/kalia			
earth dams	village			
	Kwa nzuki E.D			
	Kanzevyu E.D			
	(b)Kyondoni			
	village			
	Munandani E.D			
	(c)kalimani			
	village			
	Kwa ngiti E.D			
	Kasavyu E.D			
	(d)Kauma village			
	Kwandune E.D			
	Musosya E.D			
Construction	Katheuni /kalia		Equip	Matinyani
of sand dams	-Vyanyu river		health	health center
	Kwa kalanga		facilities	Kalimani
	mutia SD			dispensary
	Kwa mutonya			Kauma
	kitonga SD			health center
	Ndolo kivengele			Kaseki
	SD			dispensary
	-Ngethwa river			Kathuma
	Kwa muli			dispensary
	ngombe SD			

Kwa daudi		
kalingwa SD		
Maseki village		
Ndiangu river		
Kwa mbaluka SD		
Kwa Katanga SD		
Kwa Katanga 5D		
Kwa Robert SD		
-yumbuni river		
Kwa kalungo SD		
Kwa mbithi SD		
Kauma village		
Mutindi river		
Kwa muveseki		
SD		
-Kwa mukui river		
Kwa kavale SD		
-Mataaani kwa		
muthengi kitheu		
river		
Kwa muange SD		
-kaetha river		
Kwa muthwii SD		
-kithamba ngii		
river		
Kwa munyoki SD		
Kathuma village		

kIkanga/Kyatune
river
Kwa nzou SD
Kwa kanau SD
Kwa masila SD
-mukula river
Kwa mwalimu
SD
Kwa kasele SD
Kwa kethi SD
-Syo nzangu river
Kwa maluki SD
Kwa bonny SD
Kwa kyembeni
SD
-Mutendea river
Kwa mutia SD
Kwa ngemu SD
-Ndiangu river
Kwa matheka
ngui SD
Kwa mukaiwa SD
Kyondoni village
-Syokakua stream
Kwa mutual
sumaine SD

- 1 T1 /TZ /
kIkanga/Kyatune
river
Kwa
kivivukingoli SD
-mutendea river
Kwa mbaa nzuma
SD
-kavunilwa
stream
Kwa mutendwa
musyoki SD
-kungulu stream
Kwa kasusya SD
Kalimani village
-syokiti river
Kwa kitheka
katiluSD
Kwa mulanga SD
Kwa kiluu SD
Kwa nzomo
mutual SD
Kwa malati wa
nzau SD
-Kavuvu river
Kwa kamanza SD
Kwa mulandi SD
Kwa muianui 3D

	Kwa katumi SD -kwa ngeli river Kwa lovi SD Kwa nguuni SD -kaayo river Kwa nduli SD
	Kyasoo SD
	Kathunguli SD -mutendea river
	Kwa ngombalu.
Extension of	Katheuni /kalia
water	-Vyanyu river
pipelines	Kwa kalanga
	mutia SD
	Kwa mutonya
	kitonga SD Ndolo kivengele
	SD SD
	-Ngethwa river
	Kwa muli
	ngombe SD
	Kwa daudi
	kalingwa SD
	Maseki village

Ndiangu river		
Kwa mbaluka SD		
Kwa Katanga SD		
Kwa Robert SD		
-yumbuni river		
Kwa kalungo SD		
Kwa mbithi SD		
Kauma village		
Mutindi river		
Kwa muveseki		
SD		
-Kwa mukui river		
Kwa kavale SD		
-Mataaani kwa		
muthengi kitheu		
river		
Kwa muange SD		
-kaetha river		
Kwa muthwii SD		
-kithamba ngii		
river		
Kwa munyoki SD		
Kathuma village		
-		
kIkanga/Kyatune		
river		

Kwa nzou SD		
Kwa kanau SD		
Kwa masila SD		
-mukula river		
Kwa mwalimu		
SD		
Kwa kasele SD		
Kwa kethi SD		
-Syo nzangu river		
Kwa maluki SD		
Kwa bonny SD		
Kwa kyembeni		
SD		
-Mutendea river		
Kwa mutia SD		
Kwa ngemu SD		
-Ndiangu river		
Kwa matheka		
ngui SD		
Kwa mukaiwa SD		
Kyondoni village		
-Syokakua stream		
Kwa mutual		
sumaine SD		
kIkanga/Kyatune		
river		
11761		

Kwa		
kivivukingoli SD		
-mutendea river		
Kwa mbaa nzuma		
SD		
-kavunilwa		
stream		
Kwa mutendwa		
musyoki SD		
-kungulu stream		
Kwa kasusya SD		
Kalimani village		
-syokiti river		
Kwa kitheka		
katiluSD		
Kwa mulanga SD		
Kwa kiluu SD		
Kwa nzomo		
mutual SD		
Kwa malati wa		
nzau SD		
-Kavuvu river		
Kwa kamanza SD		
Kwa mulandi SD		
Kwa katumi SD		
-kwa ngeli river		
Kwa lovi SD		

	Kwa nguuni SD -kaayo river Kwa nduli SD Kyasoo SD Kathunguli SD -mutendea river Kwa ngombalu.		
Rain water harvesting in public institutions	-maini primary -kivanga primary -kyeni primary school -kwa musyimi primary -matinyani AIC primary school -mbavae primary school -katheoni primary school -kunikila primary school -kwa ndonga primary school		

	-kakumi primary				
	school				
	-kitumbi primary				
	school				
	-maseki primary				
	school.				
Train farmers	Kyondoni				
on CSA,	Katheuni				
provide	Kathuma				
farmers with	Kaumu				
climate	Kalimani				
information	Maseki				
services					
Ward:					
Migwani					
Priority 1 (Drought)		Priority 2 (Envir	ronmental	Priority 3 (Human D	iseases
		Degradation)			
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required		on		n required	
		required			
Construction	Migwani	Tree	Migwani	Construct	Migwani
of earth dams	Kyamboo	growing	Kyambo	new and	Kyamboo
in all villages	Nzeluni	activities,	0	operationali	Nzeluni
	Nzatani	establish	Nzeluni	ze existing	Nzatani
	Kisovo	tree	Nzatani	health	Kisovo

	Katalwa	nurseries across all the villages, sensitize and create awareness on environme	Kisovo Katalwa	facilities across all the villages	Katalwa
		ntal conservati on across all the villages			
Construction of sand dams	Migwani Kyamboo Nzeluni Nzatani Kisovo Katalwa	Constructi on of soil conservati on structures in degraded areas	Migwani Kyambo o Nzeluni Nzatani Kisovo Katalwa		
Rock catchment water harvesting	Migwani (itoloni)				

Training at least 6,000 farmers on CSA across all villages	Migwani Kyamboo Nzeluni Nzatani Kisovo				
	Katalwa				
Ward: Mumoni					
Priority 1 (Drought)		Priority 2 (Environmental Degradation)		Priority 3 (crop pests and diseases)	
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of earth dams	Katse mbalani Kasioni nguuku Kakuyu ngakoone Itinda muti Kakunguru Ikango kwa semard	Rehabilita tion of environme ntally sensitive sites	Muvanw a mukong a Muvarw a kathiani Kanyulu lu muumo hills	Provision of improved farm inputs Increasing the number of extension officers from 4 to 7 Sensitizatio n on crop managemen t	Kakuyu Mukonga Mutanda Ngungani Nguuku Tyaa Katse

	dam	Constructi on of soil	Ngunga ni	
	Kwa ngomo earth	s species	Mutanda	
	Kaliwa earth dam	indigenou	a	
of earth dams	dam	ion using	Mukong	
Rehabilitation	Kamakuyu eath	Reforestat	Kakuyu	
				initiative
				building
				capacity
				on of
				Delocalizati
				methods
				farming
				improved
				farmers on
				building
				Capacity
				storage
				n on cereal
				Sensitizatio
				silos
				modern
				Setting up
				bags
				e.g hermetic
				storage bags
				Subsided

	Miminali earth	conservati	Nguuku	
	dam	on across	Tyaa	
	Kambusu earth	all villages	Katse	
	dam	_		
	Katingulu earth			
	dam			
	Musasya earth			
	dam			
	Matingani earth			
	dam			
	Nduloni earth			
	dam			
Construction	Wanzelu			
of sand dams	Kimii kwa nzoka			
	Kakiko kwa			
	syengo			
	Ithamboni			
	musonga			
	Kakuadedu			
	Iviani kwa ngai			
	Kwa katingu			
	Kwa musyoka			
	Kwa kasau			
	Mukindu			
Rain water	Kavisani primary			
harvesting	school			

	Musenya primary
	school
	Mbarani primary
	school
	Ithozwi primary
	school
	Itinda primary
	school
	Kikuthini primary
	school
	Mukokene
	dispensary
	Kaliani primary
	school
Water pipeline	Katse –mbalani
distribution	water pipe
	Kathioni –
	mutioni –
	mwosya
	Pipeline
	Mutioni –
	syomuti –
	kamathitu
	Kaliwa –
	yangalisu –
	kambusu

	Ngaani – kangomo – ikongo Ithingili – ngaaka – kasyalani Katukatuumi – ngingi – musukamioni				
Ward: Mutha					
Priority 1 (Drought)		Priority 2 (huma conflict)	n-wildlife	Priority 3 (Human D	iseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Water harvesting through construction of earth dams, improve quality and drought tolerant crops, improve the	Katune Mwengea Kalambani Kiimani Ndakani Ngaani isaa	Improve response to human-wildlife conflict by the KWS	Ndasani, Kalia Katune, Ngaani, Katene kalamban i, Ikaa	Constructio n of new health facilities, operationali ze existing health facilities and equip	Katune Mwengea Kalambani Kiimani Ndakani Ngaani isaa

quality of local livestock breeds across all the villages				the health facilities	
Ward: Mutito Priority 1 (Drought)		Priority 2 (Env Degradation)	vironmental	Priority 3 (Human	Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Water harvesting (earth dams, sand dams and water pans)	Masasini Kitoo Musukini Kyaimu Kalawa - Mutito hills	Protection of water springs	Mutito	Operationali zation of health facilities across all villages, construction of new health facilities across all the villages, equiping health	Masasini Kitoo Musukini Kyaimu Kalawa

Ward: Ngomeni Priority 1 (Drough	t)	•	uman-human	facilities across all the villages  Priority 3 (Huma	ın Diseases
Action or Intervention required	Where	conflict) Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of earth dams, sand dams, water pipeline distribution across the ward	Kavaani Mitamisyi Kalwa Kimela Ndatani Syumani Kathalaani	Sensitizati on and awareness , equal distributio n of resources, surveying the disputed resources, increasing the number of	Kimela, Syumani, Mitamisy i, Kathalaa ni, Kavaani, Ikame	Construct new health facilities across the villages, equip health facilities across the villages, operationali ze the stalled health facilities	Kavaani Mitamisyi Kalwa Kimela Ndatani Syumani Kathalaani

		water			
		sources			
Promote	Kavaani				
pasture	Mitamisyi				
growing	Kalwa				
across the	Kimela				
ward	Ndatani				
	Syumani				
	Kathalaani				
Sensitization	Kavaani				
and awareness	Mitamisyi				
creation on	Kalwa				
environmental	Kimela				
conservation	Ndatani				
and protection	Syumani				
Capacity	Kathalaani				
building local					
farmers on					
sustainable					
livestock					
keeping					
Ward: Nguni					
Priority 1 (Drought)	1	Priority 2 Diseases)	· · · · · · · · · · · · · · · · · · ·		Diseases

Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Water tanks for rain water harvesting	Nguni primary school Mwasuma primary school Kamumbu primary school Kavisu primary school Kwanzili primary school Katune primary school Muimi primary school Kitungali primary school Kitungali primary school Kwa nganga primary school	Constructi on of modern crushes	Ivuusya site Kithumu la site Kavisu site Kiangu site Kiamum o site Sosoma site Levuni site Ukasi site	Constructio n of new health facilities	Muuni dispensary Ndiamumo Dispensary Kiangu dispensary Masavi dispensary Mosovo dispensary
Rock catchment water harvesting	Maai hills and Imba hills	Employ more veterinary officers	Mwasu ma village	Equip health facilities	Sosoma dispensary Musovo dispensary

Desilting earth dams	Nzengeni earthdam Kaluku earth dam Kwanzili earthdam Kiio earth dam Ukasi earthdam	Farmers to be trained on the type of pastures to grow, how to harvest and store pasture	Mathiak ani village Maai village Mbuvu village Mwasu ma village Mathiak ani village Maai village Mai village	Sensitizatio ns, promoting community health promoters	Ndiamumo dispensary  Across all villages
Construction of new earth dams	Kawala earthdam Kamunyu earthdam Kwa mwondu earthdam Kwandamu earthdam Kwa mulinde ED Kwa mutembuka ED		village		

Construction		
of sand dams	Kwa isuo river	
	kwa mutuku SD	
	Enziu river	
	Kanzu SD	
	Kivou river	
	MwelamaSD	
	Thunguthu	
	Kwa nziu SD	
	Katuti river	
	Katuti Sand dam	
	Iseeni river	
	Kwa kasaika SD	
	Masavi to Maai	
	Kilawa to	
	Mwasuma	
	primary to	
	Chamatani	
	primary	
	To Kwa nguti	
	primary to syonoo	
	primary	
	Tiva hills to	
	Machui to Miuni	

Ward: Tharaka Priority 1 (Drought	t)	Priority 2 (crodiseases)	op pests and	Priority 3 (Huma	n Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Water harvesting through; - construct ion of earth dams - construct ion of sand dams - installati on of water tanks in public institutio	Gacingongo Kanyengya Kamaindi Kanthungu Gakombe	Constructi on of 5 cattle dips	Gacingo ngo Kanyeng ya Kamain di Kanthun gu Gakomb e	Construct at least 6 health facilities	Gacingongo Kanyengya Kamaindi Kanthungu Gakombe

ns across the ward					
Tree growing - establish ment of 1 tree nurseries per village	Gacingongo Kanyengya Kamaindi Kanthungu Gakombe	Promote local breeds	Gacingo ngo Kanyeng ya Kamain di Kanthun gu Gakomb	Equip the existing health facilities	Gacingongo Kanyengya Kamaindi Kanthungu Gakombe
Promoting pasture production across the ward	Gacingongo Kanyengya Kamaindi Kanthungu Gakombe	Training and capacity building of at least 6,000 farmers	Gacingo ngo Kanyeng ya Kamain di Kanthun gu Gakomb e	Sensitizatio n and awareness across the ward on health and nutrition Promote community health promoters across the ward	Gacingongo Kanyengya Kamaindi Kanthungu Gakombe
Sensitization and awareness	Gacingongo Kanyengya	Employ at least 6	Gacingo ngo		

creation on environmental protection	Kamaindi Kanthungu Gakombe	more livestock officer	Kanyeng ya Kamain di Kanthun gu Gakomb		
			e Gakomb		
Construction of water abstraction strategies from the tana river	Along tana river				
Ward: Waita					
Priority 1 (Drought)		Priority 2 (Crop Diseases)	Pests and	Priority 3 (Human D	iseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Rehabilitation of shallow wells	Kiriri shallow well	Promote drought tolerant crops	Waita Mwamb ui Thonoa	Constructio n of health centers	Katuluni dispensary Maongoa

	Jordan Shallow		Kathoka		Dispensary
	well Kwan ganga		Nyanyaa Enziu		Malioni dispensary
	kavengei SW Mavivani kwa mbiti SW				KauNguni dispensary Ikuusya
	Kwa musili kamotho SW				Dispensary
	NauNguni primary SW				Kulungwa dispensary
					Kisole dispensary
					Kya ndua dispensary
Rock catchment water harvesting	Thonoa rock cathment Kavila Ruguti	Train and capacity farmers on CSA	Waita Mwamb ui Thonoa	Equip health centers	Waita dispensary Mutwangom
	Dungura Mukuni Kilyamboo Kwa syengo munithya		Kathoka Nyanyaa Enziu		be dispensary

			Enziu dispensary Nyaanyaa dispensary Muono dispensary
			Mwambui
			dispensary
Construction	Kaliluni E.D		
of earth dams	Kyandoas earth		
	dam		
	MunyuNguni earthdam		
	Katanga earth		
	dam		
	Kasura earthdam		
	Ndologwe E.D		
	Kathambandia		
	E.D		
	Kwa mwanzia		
	E.D		
	Kisole E.D		

	Kwa kimwele E.D	
	Kiia E.D	
Construction	Nginyei earthdam	
of earth dams	Kwa kisilu	
	earthdam	
	Kwa maithya	
	earthdam	
	Maongoa	
	earthdam	
	Kaulyambu E.D	
	Ilinyi ED	
	Waita ED	
	Mutembuka ED	
	Kwa kasee ED	
	Kwa mutia ED	
	Nzalani ED	
	Kwa Michael ED	
	Masokani ED	
	Kwa titus mboo	
	ED	
Construction	Karuri river	
of sand dams	Karuri SD	
	Kivila river	
	Kwa kilile SD	

Mbiri river		
Kwa iliu, Kwa		
mwendwa, Kwa		
muchaSD		
Kasura river		
Kwa mwende,		
kwa vaivui, kwa		
mutisya SD		
Mwoono river		
Kwa muthui wa		
muthengi,Kaumb		
e , kwa muema		
Sand dam		
Kanyekini river		
Kwa Mwaniki,		
Kwa koko SD		
Mutembuka river		
Kwa kilonzo		
mumemde SD		
Musiiulu river		
Kwa kitulya , kwa		
paul SD		
Kamunyu river		
Kamunyu ilovi,		
Kwa mwanda SD		
SD		
Kivila river		

Ward:	Kwa mwangangiSD Katakani river Kwa musili SD Kitwa mikeu river Kwa mwendwa kimwele , kwa murokalevele SD Nginyai river kwa titus SD Lenye river Kwa kombe , Kwa ivia SD				
Ward: Zombe					
Priority 1 (Drought)		Priority 2 (Envi Degradation)	ronmental	Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where

Rain water harvesting tanks	Primary schools;  1. Makongo 2. Kaluli 3. Katikoni 4. Kivisuni 5. Mavia Mayo	Constructi on of soil conservati on structures targeting farming lands in all villages	Kikuu Ilaa/Kati koni Malatani Makong o Thua kasuNgu ni	Constructio n of new health facilities	<ul><li>Kavingo</li><li>Katikoni</li><li>Kadongo</li><li>Kongwea</li><li>Nzilani</li><li>Imbuvi</li><li>Kaavani</li></ul>
Construction of earth dams	<ul> <li>Ngelani dam</li> <li>Kilimboni</li> <li>Yimbuni</li> <li>Ya wii</li> <li>Nzilani</li> <li>Kasululu</li> </ul>	Training on commerci al tree growing Establishi ng tree nurseries in all villages Sensitizati on and awareness creation on environme ntal	Kikuu Ilaa/Kati koni Malatani Makong o Thua kasuNgu ni	Equipping and operationali ze health facilities	Zombe Hospital Ngungi Dispensary

		conservati on Promoting alternative livelihood s to commerci al charcoal productio n		
Construction of sand dams	<ul> <li>Ngungi River</li> <li>Maangani River</li> <li>Nguuni stream</li> <li>Kithumula Stream</li> <li>Mwinga Stream</li> <li>Musavi Stream</li> <li>Kathandi</li> </ul>			

Ward: Kyuso					
Priority 1 (Drought)		Priority 2 (E Degradation)	nvironmental	Priority 3 (Huma	an Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction	Thunguthu(Kwa	9 trree	Itiva/Nz	Improve	Itiva/Nzou
of sand dams	Mwendwa	growing	ou	and equip	Kamula
	Ngumbi)	sensitizati	Kamula	health	Kamuwong
	Kivila (kwa	on	Kamuw	facilities	0
	kilo/Kitheka)	activities	ongo	across the	Kimangao
	Kivila(kwa		Kimang	villages	Kimu
	Yengo)	Establishi	ao		Mivukoni
	Ikinda(kwa peter	ng at least	Kimu	Awareness	Ngaaie
	kimii)	1 tree	Mivuko	on hygiene	Twimyua
	Kamwongo(kwa	nursery in	ni	and	kyuso
	kalundu)	every	Ngaaie	sanitation	
	Masyungwa	village	Twimyu		
	Mathimami		a	Improve	
		Constructi	kyuso	accessibility	
		on of		to the health	
		household		centers	
		level soil			

		conservati	Increase t	he
		on	number	
		structures	ambulance	es
		in farming	from 1-2	
		lands		
		across the		
		ward		
Construction	Kwa Mwilikwa			
of earth dams	Kisinga			
	Ngiluni(kwa			
	Musili Muli)			
	Mauwani(kwa			
	Mwendwa			
	Ngumbi)			
	Katungulu(kwa			
	Musembi			
	Muasya)			
	Kasyongo(kwa			
	Muasya Nzuku)			
	Katwenywe			
	Manana(kwa			
	Kivulu)			
	Kwa Sammy			
	Mwangangi			
	Ngaana kwa			
	Ngundu			

Water pipeline	Itiva nzou(Tii
extension	market)
	Mivukoni(kwa
	Vere)
	Mbui
	borehole(kwa
	Mue)
	Ndathani
	borehole(kwa
	Muthimbi
	market)
	Kyuso(Malava)
	Kyuso(Mikwa)
	Ngaie(Mikwa)
	Kora(Mukeka)
Rehabilitation	Mbui earth dam
of earth dams	Kamulu earth
	dam
	Maanzui earth
	dam
	Tii earth dam
	Kamavui earth
	dam
	Ngai earth dam
Rain water	Kitangui primary
harvesting	school
tanks	

(10,000L each)	Mugero primary school Kingingo primary school Mutambani primary school Kaliani primary school Kanana primary school Kanwengi primary school				
Ward: Athi					
Priority 1 (Drought	t)	Priority 2 (Hu conflict)	ıman-Wildlife	Priority 3 (Huma	n Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of mega earth dams	Tiva River,and Ndilui stream meeting point At ndilui stream (Ngomano)Rehab	Improve response to human-wildlife	Kisiio, Lower Kituti, Mwamba ni,	Create awareness on health and sanitation	Maluma MoNguni Upper kituti Lower kituti Katilini

	ilitation of Nguni	conflict	Katilini,		Kilawa
	earth dam	reports	Kilawa		Kisiio
					Makaiye
					Kalivu
Extension of pipeline water supply	Kangu pipeline to other villages	Communit y sensitizati on and awareness creation on poaching and encroach ment	Kisiio, Lower Kituti, Mwamba ni, Katilini, Kilawa	Equipping existing health facilities, constructing new health facilities	Maluma MoNguni Upper kituti Lower kituti Katilini Kilawa Kisiio Makaiye Kalivu
Establish a	Muangeni,				
water	moNguni, ilengi,				
purifying	nduuni,				
plant	kyanduuni				
Construction	Along Tiva				
of sand dams	Kwa kituku				
	Kwa nzaki				
	Kwa ho.Muoki				
	Kwa Tisya				
	Kwa Kisingo				
	Kwa Matemani				
	Kwa kasoka				

	Kwa imathoka		
Rehabilitation	Mbakoni		
of degraded	Kisiio		
sites through	Lower kituti		
tree growing	Upper Kitui		
Establishment	Maluma		
of tree	MoNguni		
nurseries at	Upper kituti		
least 1 in each	Lower kituti		
village	Katilini		
	Kilawa		
	Kisiio		
	Makaiye		
	Kalivu		
Trainings and	Maluma		
capacity	MoNguni		
building	Upper kituti		
Climate	Lower kituti		
Change	Katilini		
planning	Kilawa		
teams	Kisiio		
	Makaiye		
	Kalivu		

Ward: Voo Kyamatu Priority 1 (Drought)		Priority 2 (E Degradation)	nvironmental	Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Extension of water pipeline	From Muthungu to Itikie to Kamwiu to Nditine From NzuNguni to Ndulani, Kithekethe, Twalimu to makutano	Rehabilita tion of water catchment areas	Kinzou Inguu Malemb wa kaluasi	Constructio n of new health facilities  Equipping of existing health facilities	Kyango Imale Muthungue Kyamatu NzuNguni
Construction of earth dams	Kyandeve Kemwaa Kwa muii Kwa ngila Kwa mbaa ndungi Masimbani Katulu Kwa muvithu Menguuwe Indoo	Ecosyste m restoration and soil conservati on through check dams	Wangila Mbuku Mwinga Kwa muti Kwa kimande Kyanng o Ikukuma		

	Kwa mulatya	Kamaku	
	Kwa musyoka	vu	
	Syetundo	Kanzilu	
		Isalava	
Sumpwells	Kaluasi		
	Kwanzungu		
	nditime		
	Kwa Mwangu		
	kamwiu		
	Thua		
	Tukili		
	Ikitioni		
Desilting	Kwa Mbivya		
earth dams	Kithanako		
	Kwa Kalavati		
	Kwa Kalowe		
	Katolongwe		
Improve	Kyamatu, Nzanzu,		
response on	Muthungue,		
human-human	NzuNguni		
conflict			
reported			
Improve	Kyamatu and		
response on	Muthungue		
human-			
wildlife			

conflict reported					
Ward: Kisasi					
Priority 1 (Drough	t)	Priority 2 (Environmental Degradation)		Priority 3 (Huma	nn Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of earth dams and sand dams	Kwa mutunga Kwa katumi Kwa kalovo Isyuko ikuthumula Mililuni Kwa kakonge nungu Kwa philomena muthoka Kwa kimote Kaloloo Nduni Mwala ivu Kya mioni Koma one	Designate a solid waste dumping site	Mosa	Inclusion of 10 community health promoters per vilage	Masimbini Maaliku Mbusyani Kavisuni Ngiluni Mosa nguuni

	Koma two Nzeeu ilungusu				
	Kwa kyalo Kwa kinyoo				
	Kilonzo				
	Kwa maluki				
	Kilonzo				
	Kwa kaamba				
	Kitamba				
	Miumbu				
	Katakali				
	Koma kwa john				
	Ngasani				
	Kwa isoni				
	katombya				
	Kiwa ngei				
Rock	Ituki	Establish	Masimbi	Sensitizatio	Masimbini
catchment	Kwa nduluku	tree	ni	n and	Maaliku
water	Mbuthani	nurseries	Maaliku	awareness	Mbusyani
harvesting	Mathendu	at least	Mbusya	on health	Kavisuni
	Nguutu	one in	ni	and	Ngiluni
	Muloso	each	Kavisuni	nutrition	Mosa
		village	Ngiluni		nguuni
			Mosa		
			nguuni		

Water	Masimbini
harvesting	Ngiluni
tanks	Mbusyani
	Maaliku
	Kavisuni
	Nguuni
	Mosa
Water pans	Each village 3
	water pans and 3
	farm ponds
Distribution	Kisasi to savat
of piped water	Kisasi to kivini
	Maaliku to
	mission
	Ngiluni to
	tunduni kasevi
	Kavasya to
	mathumbi ndivo
	Mbusyani to
	kilimbitini
	Kavisuni to
	kivuthi
Promote	Masimbini
drought	Maaliku
tolerant crops	Mbusyani
and CSA	Kavisuni
	Ngiluni

	Mosa	
	nguuni	
Employ more	Masimbini	
extension	Maaliku	
agriculture	Mbusyani	
officers	Kavisuni	
	Ngiluni	
	Mosa	
	nguuni	
Employ more	Masimbini	
extension	Maaliku	
livestock	Mbusyani	
officers	Kavisuni	
	Ngiluni	
	Mosa	
	nguuni	
Promote	Masimbini	
poultry	Maaliku	
farming	Mbusyani	
	Kavisuni	
	Ngiluni	
	Mosa	
	nguuni	
Ward: Nuu		

Priority 1 (Drought)		Priority 2 (E Degradation)	2 (Environmental Priority 3 (Human Disease tion)		nn Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of mega earth dams	Nuu Mutyangombe Mwambiu Nyaani Wingemi Nguuni kyangati	Improve response to human-wildlife conflict reports	Nuu, Mwambi u, Wingemi, Kyangati, Nyaani, Mutyang ome, Nguuni	Create awareness on health and sanitation	Nuu Mutyangom be Mwambiu Nyaani Wingemi Nguuni kyangati
Extension of pipeline water supply	Kangu pipeline to other villages	Communit y sensitizati on and awareness creation on poaching and encroach ment	Nuu, Mwambi u, Wingemi, Kyangati, Nyaani, Mutyang ome, Nguuni	Equipping existing health facilities, constructing new health facilities	Nuu Mutyangom be Mwambiu Nyaani Wingemi Nguuni kyangati
Establish a water	Nuu				

purifying	
plant	
Construction	Nuu
of sand dams	Mutyangombe
	Mwambiu
	Nyaani
	Wingemi
	Nguuni
	kyangati
Rehabilitation	Nuu
of degraded	Mutyangombe
sites through	Mwambiu
tree growing	Nyaani
	Wingemi
	Nguuni
	kyangati
Establishment	Nuu
of tree	Mutyangombe
nurseries at	Mwambiu
least 1 in each	Nyaani
village	Wingemi
	Nguuni
	kyangati Makaiye
	Kalivu
Trainings and	Maluma
capacity	MoNguni
building	Upper kituti

Climate	Lower kituti				
Change	Katilini				
planning	Kilawa				
teams	Kisiio				
	Makaiye				
	Kalivu				
Ward: Mui					
Priority 1 (Drought	t)	Priority 2 (E	nvironmental	Priority 3 (Huma	n Diseases
		Degradation)			
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required		on		n required	
		required			
Construction	Itiko	Rehabilita	Itiko	Create	Itiko
of mega earth	Kitise	tion of	Kitise	awareness	Kitise
dams	Ngungi	degraded	Ngungi	on health	Ngungi
	Ngoo	lands	Ngoo	and	Ngoo
	Ngiluni		Ngiluni	sanitation	Ngiluni
Extension of	Itiko	Communit	Itiko	Equipping	Itiko
pipeline water	Kitise	у	Kitise	existing	Kitise
supply	Ngungi	sensitizati	Ngungi	health	Ngungi
	Ngoo	on and	Ngoo	facilities,	Ngoo
	Ngiluni	awareness	Ngiluni	constructing	Ngiluni
		creation		new health	
		on		facilities	

		encroach		
		ment		
Establish a	Itiko			
water	Kitise			
purifying	Ngungi			
plant	Ngoo			
	Ngiluni			
Construction	Itiko			
of sand dams	Kitise			
	Ngungi			
	Ngoo			
	Ngiluni			
Rehabilitation	Itiko			
of degraded	Kitise			
sites through	Ngungi			
tree growing	Ngoo			
	Ngiluni			
Establishment	Itiko			
of tree	Kitise			
nurseries at	Ngungi			
least 1 in each	Ngoo			
village	Ngiluni			
Trainings and	Itiko			
capacity	Kitise			
building	Ngungi			
Climate	Ngoo			
Change	Ngiluni			

planning teams					
Construction of mega earth dams	Itiko Kitise Ngungi Ngoo Ngiluni	Improve response to human-wildlife conflict reports	Itiko Kitise Ngungi Ngoo Ngiluni	Create awareness on health and sanitation	Itiko Kitise Ngungi Ngoo Ngiluni
Extension of pipeline water supply	Itiko Kitise Ngungi Ngoo Ngiluni	Communit y sensitizati on and awareness creation on poaching and encroach ment	Itiko Kitise Ngungi Ngoo Ngiluni	Equipping existing health facilities, constructing new health facilities	Itiko Kitise Ngungi Ngoo Ngiluni
Ward: Nguutani					
Priority 1 (Drough	t)	Priority 2 (E Degradation)	nvironmental	Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Interventi	Where	Action or Interventio n required	Where

Construction of mega earth dams	Nzawa Muthioni Nzauni Muivu Nzalae Nguutani Ngongoni	n required Rehabilita tion of degraded lands	Nzawa Muthion i Nzauni Muivu Nzalae Nguutan i Ngongo ni	Create awareness on health and sanitation	Nzawa Muthioni Nzauni Muivu Nzalae Nguutani Ngongoni
Extension of pipeline water supply	Kangu pipeline to other villages	Communit y sensitizati on and awareness	Nzawa Muthion i Nzauni Muivu Nzalae Nguutan i Ngongo ni	Equipping existing health facilities, constructing new health facilities	Nzawa Muthioni Nzauni Muivu Nzalae Nguutani Ngongoni
Establish a water purifying plant	Nzawa Muthioni Nzauni Muivu Nzalae				

	Nguutani		
	Ngongoni		
Construction	Nzawa		
of sand dams	Muthioni		
	Nzauni		
	Muivu		
	Nzalae		
	Nguutani		
	Ngongoni		
Rehabilitation	Nzawa		
of degraded	Muthioni		
sites through	Nzauni		
tree growing	Muivu		
	Nzalae		
	Nguutani		
	Ngongoni		
Establishment	Nzawa		
of tree	Muthioni		
nurseries at	Nzauni		
least 1 in each	Muivu		
village	Nzalae		
	Nguutani		
	Ngongoni		
Trainings and	Nzawa		
capacity	Muthioni		
building	Nzauni		
Climate	Muivu		

Change	Nzalae				
planning	Nguutani				
teams	Ngongoni				
Ward:					
MutoNguni					
Priority 1 (Drough	t)	Priority 2 (E Degradation)	nvironmental	Priority 3 (Huma	nn Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of mega earth dams	Mithini MutoNguni Musengo Yalatani Kakeani Kangaondi	Rehabilita tion of degraded areas	Mithini MutoNg uni Museng o Yalatani Kakeani Kangaon di	Create awareness on health and sanitation	Mithini MutoNguni Musengo Yalatani Kakeani Kangaondi
Extension of pipeline water supply	Mithini MutoNguni Musengo Yalatani Kakeani Kangaondi	Communit y sensitizati on and awareness creation	Mithini MutoNg uni Museng o Yalatani	Equipping existing health facilities, constructing	Mithini MutoNguni Musengo Yalatani Kakeani Kangaondi

		on	Kakeani	new health	
		poaching	Kangaon	facilities	
		and	di		
		encroach			
		ment			
Establish a	Mithini				
water	MutoNguni				
purifying	Musengo				
plant	Yalatani				
	Kakeani				
	Kangaondi				
Construction	Mithini				
of sand dams	MutoNguni				
	Musengo				
	Yalatani				
	Kakeani				
	Kangaondi				
Rehabilitation	Mithini				
of degraded	MutoNguni				
sites through	Musengo				
tree growing	Yalatani				
	Kakeani				
	Kangaondi				
Establishment	Mithini				
of tree	MutoNguni				
nurseries at	Musengo				
	Yalatani				

least 1 in each	Kakeani				
village	Kangaondi				
Trainings and	Mithini				
capacity	MutoNguni				
building	Musengo				
Climate	Yalatani				
Change	Kakeani				
planning	Kangaondi				
teams					
Ward:					
Kyangwithya					
West					
Priority 1 (Drought)		Priority 2 (Envi	ronmental	<b>Priority 3 (Human Diseases</b>	
		Degradation)			
Action or	Where		Where	Action or	Where
	Where	Degradation)	<del>,</del>	,	
Action or	Where	Degradation) Action or	<del>,</del>	Action or	
Action or Intervention	Where	Degradation) Action or Interventi	<del>,</del>	Action or Interventio	
Action or Intervention	Where  Kavuta	Degradation) Action or Interventi on	<del>,</del>	Action or Interventio	
Action or Intervention required		Degradation) Action or Interventi on required	Where	Action or Interventio n required	Where
Action or Intervention required  Construction	Kavuta	Degradation) Action or Interventi on required Rehabilita	Where Kavuta	Action or Interventio n required	Where Kavuta
Action or Intervention required  Construction of mega earth	Kavuta Ndumoni	Degradation) Action or Interventi on required Rehabilita te	Where Kavuta	Action or Interventio n required  Create awareness	Where  Kavuta Ndumoni
Action or Intervention required  Construction of mega earth	Kavuta Ndumoni Utooni	Degradation) Action or Interventi on required Rehabilita te degraded	Where  Kavuta Ndumon i	Action or Intervention required  Create awareness on health	Where  Kavuta Ndumoni Utooni
Action or Intervention required  Construction of mega earth	Kavuta Ndumoni Utooni Itoleka	Degradation) Action or Interventi on required Rehabilita te degraded	Where  Kavuta Ndumon i Utooni	Action or Interventio n required  Create awareness on health and	Where  Kavuta Ndumoni Utooni Itoleka
Action or Intervention required  Construction of mega earth	Kavuta Ndumoni Utooni Itoleka Mulutu	Degradation) Action or Interventi on required Rehabilita te degraded	Where  Kavuta Ndumon i Utooni Itoleka	Action or Interventio n required  Create awareness on health and	Where  Kavuta Ndumoni Utooni Itoleka Mulutu

Extension of	Kavuta	Communit	Kavuta	Equipping	Kavuta
pipeline water	Ndumoni	у	Ndumon	existing	Ndumoni
supply	Utooni	sensitizati	i	health	Utooni
	Itoleka	on and	Utooni	facilities,	Itoleka
	Mulutu	awareness	Itoleka	constructing	Mulutu
	Tunguta		Mulutu	new health	Tunguta
			Tunguta	facilities	
Establish a	Kavuta				
water	Ndumoni				
purifying	Utooni				
plant	Itoleka				
piant	Mulutu				
	Tunguta				
	Tunguta				
Construction	Kavuta				
of sand dams	Ndumoni				
	Utooni				
	Itoleka				
	Mulutu				
	Tunguta				
Rehabilitation	Kavuta				
of degraded	Ndumoni				
sites through	Utooni				
tree growing	Itoleka				
	Mulutu				

required		on required		n required	
Intervention		Interventi		Interventio	
Action or	Where	Action or	Where	Action or	Where
Priority 1 (Drought	)	Priority 2 (Envir Degradation)	onmental	<b>Priority 3 (Human Diseases</b>	
East					
Kyangwithya					
Ward:					
teams					
planning	Tunguta				
Change	Mulutu				
Climate	Itoleka				
building	Utooni				
Trainings and capacity	Kavuta Ndumoni				
	Tunguta				
village	Mulutu				
least 1 in each	Itoleka				
nurseries at	Utooni				
of tree	Ndumoni				
Establishment	Kavuta				
	Tunguta				

Construction	Kalawa/kabaa	Rehabilita	Kalawa/	Create	Kalawa/kab
of mega earth	Museve	tion of	kabaa	awareness	aa
dams	Mutune	degraded	Museve	on health	Museve
	Mulundi	areas	Mutune	and	Mutune
	Misewani		Mulundi	sanitation	Mulundi
	Ivaini		Misewa		Misewani
			ni		Ivaini
			Ivaini		
Extension of	Kalawa/kabaa	Communit	Kalawa/	Equipping	Kalawa/kab
pipeline water	Museve	у	kabaa	existing	aa
supply	Mutune	sensitizati	Museve	health	Museve
	Mulundi	on and	Mutune	facilities,	Mutune
	Misewani	awareness	Mulundi	constructing	Mulundi
	Ivaini	creation	Misewa	new health	Misewani
			ni	facilities	Ivaini
			Ivaini		
Establish a	Kalawa/kabaa				
water	Museve				
purifying	Mutune				
plant	Mulundi				
Prant	Misewani				
	Ivaini				
	1 / 61111				
Construction	Kalawa/kabaa				
of sand dams	Museve				

	Mutune Mulundi Misewani Ivaini	
Rehabilitation of degraded sites through tree growing	Kalawa/kabaa Museve Mutune Mulundi Misewani Ivaini	
Establishment of tree nurseries at least 1 in each village	Kalawa/kabaa Museve Mutune Mulundi Misewani Ivaini	
Trainings and capacity building Climate Change planning teams	Kalawa/kabaa Museve Mutune Mulundi Misewani Ivaini	

Ward: Kithumula Kwa Mutonga Priority 1 (Drough	t)	Priority 2 (E Degradation)	nvironmental	Priority 3 (Huma	nn Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Intervention required	Where
Construction of mega earth dams	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani	Rehabilita tion of degraded areas	Kwa mulungu Mutonga Kithumu la Kasaini Mithikw ani	Create awareness on health and sanitation	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani
Extension of pipeline water supply	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani	Communit y sensitizati on and awareness creation on poaching	Kwa mulungu Mutonga Kithumu la Kasaini Mithikw ani	Equipping existing health facilities, constructing new health facilities	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani

Establish a water purifying plant	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani	and encroach ment		
Construction of sand dams	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani			
Rehabilitation of degraded sites through tree growing	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani			
Establishment of tree nurseries at least 1 in each village	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani			

Trainings and	Kwa mulungu				
capacity	Mutonga				
building	Kithumula				
Climate	Kasaini				
Change	Mithikwani				
planning					
teams					
Construction	Kwa mulungu	Improve	Kwa	Create	Kwa
of mega earth	Mutonga	response	mulungu	awareness	mulungu
dams	Kithumula	to human-	Mutonga	on health	Mutonga
	Kasaini	wildlife	Kithumu	and	Kithumula
	Mithikwani	conflict	la	sanitation	Kasaini
		reports	Kasaini		Mithikwani
			Mithikw		
			ani		
***					
Ward: Mutomo					
Priority 1 (Drought	t)	Priority 2 (E	nvironmental	Priority 3 (Huma	an Diseases
		Degradation)			
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required		on		n required	
		required			

Construction	Mwala	Rehabilita	Mwala	Create	Mwala
of mega earth	Kandae	tion of	Kandae	awareness	Kandae
dams	Kibwea	degraded	Kibwea	on health	Kibwea
	Kawelu	lands	Kawelu	and	Kawelu
	Uae		Uae	sanitation	Uae
	Kitoo		Kitoo		Kitoo
Extension of	Mwala	Communit	Mwala	Equipping	Mwala
pipeline water	Kandae	у	Kandae	existing	Kandae
supply	Kibwea	sensitizati	Kibwea	health	Kibwea
	Kawelu	on and	Kawelu	facilities,	Kawelu
	Uae	awareness	Uae	constructing	Uae
	Kitoo	creation	Kitoo	new health	Kitoo
		on		facilities	
		poaching			
		and			
		encroach			
		ment			
Establish a	Mwala				
water	Kandae				
purifying	Kibwea				
plant	Kawelu				
	Uae				
	Kitoo				
Construction	Mwala				
of sand dams	Kandae				
	Kibwea				
	Kawelu				

	Uae				
	Kitoo				
Rehabilitation	Mwala				
of degraded	Kandae				
sites through	Kibwea				
tree growing	Kawelu				
	Uae				
	Kitoo				
Establishment	Mwala				
of tree	Kandae				
nurseries at	Kibwea				
least 1 in each	Kawelu				
village	Uae				
	Kitoo				
Trainings and	Mwala				
capacity	Kandae				
building	Kibwea				
Climate	Kawelu				
Change	Uae				
planning	Kitoo				
teams					
Construction	Mwala	Improve	Mwala	Create	Mwala
of mega earth	Kandae	response	Kandae	awareness	Kandae
dams	Kibwea	to human-	Kibwea	on health	Kibwea
	Kawelu	wildlife	Kawelu	and	Kawelu
	Uae	conflict	Uae	sanitation	Uae
	Kitoo	reports	Kitoo		Kitoo

Extension of	Mwala	Communit	Mwala	Equipping	Mwala
pipeline water	Kandae	y	Kandae	existing	Kandae
supply	Kibwea	sensitizati	Kibwea	health	Kibwea
	Kawelu	on and	Kawelu	facilities,	Kawelu
	Uae	awareness	Uae	constructing	Uae
	Kitoo	creation	Kitoo	new health	Kitoo
		on		facilities	
		poaching			
		and			
		encroach			
		ment			
Ward: Mbitini					
Priority 1 (Drought)		Priority 2 (Environmental Degradation)		Priority 3 (Human Diseases	
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required		on		n required	
		required			
Construction	Mwala	Rehabilita	Mwala	Create	Mwala
of mega earth	Kandae	te	Kandae	awareness	Kandae
dams	Kibwea	degraded	Kibwea	on health	Kibwea
	Kawelu	areas	Kawelu	and	Kawelu
	Uae		Uae	sanitation	Uae
	Kitoo		Kitoo		Kitoo

Extension of	Mwala	Communit	Mwala	Equipping	Mwala
pipeline water	Kandae	y	Kandae	existing	Kandae
supply	Kibwea	sensitizati	Kibwea	health	Kibwea
	Kawelu	on and	Kawelu	facilities,	Kawelu
	Uae	awareness	Uae	constructing	Uae
	Kitoo	creation	Kitoo	new health	Kitoo
		on		facilities	
		poaching			
		and			
		encroach			
		ment			
Establish a	Mwala				
water	Kandae				
purifying	Kibwea				
plant	Kawelu				
	Uae				
	Kitoo				
Construction	Mwala				
of sand dams	Kandae				
	Kibwea				
	Kawelu				
	Uae				
	Kitoo				
Rehabilitation	Mwala				
of degraded	Kandae				
sites through	Kibwea				
tree growing	Kawelu				

	Uae				
	Kitoo				
Establishment	Mwala				
of tree	Kandae				
nurseries at	Kibwea				
least 1 in each	Kawelu				
village	Uae				
_	Kitoo				
Trainings and	Mwala				
capacity	Kandae				
building	Kibwea				
Climate	Kawelu				
Change	Uae				
planning	Kitoo				
teams					
Ward:					
Nzambani					
Priority 1 (Drough	t)	Priority 2 (E	nvironmental	Priority 3 (Huma	n Diseases
		Degradation)			
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required		on		n required	
		required			
Construction	Kavalula	Rehabilita	Kavalula	Create	Kavalula
of mega earth	Kilonzo	tion of	Kilonzo	awareness	Kilonzo
dams	Ikuyuni		Ikuyuni	on health	Ikuyuni

	Kyanika	degraded	Kyanika	and	Kyanika
	Kangweni	areas	Kangwe ni	sanitation	Kangweni
Extension of pipeline water supply	Kavalula Kilonzo Ikuyuni Kyanika Kangweni	Communit y sensitizati on and awareness creation on poaching and encroach ment	Kavalula Kilonzo Ikuyuni Kyanika Kangwe ni	Equipping existing health facilities, constructing new health facilities	Kavalula Kilonzo Ikuyuni Kyanika Kangweni
Establish a water purifying plant	Kavalula Kilonzo Ikuyuni Kyanika Kangweni				
Construction of sand dams	Kavalula Kilonzo Ikuyuni Kyanika Kangweni				

Rehabilitation	Kavalula				
of degraded	Kilonzo				
sites through	Ikuyuni				
tree growing	Kyanika				
	Kangweni				
Establishment	Kavalula				
of tree	Kilonzo				
nurseries at	Ikuyuni				
least 1 in each	Kyanika				
village	Kangweni				
Trainings and	Kavalula				
capacity	Kilonzo				
building	Ikuyuni				
Climate	Kyanika				
Change	Kangweni				
planning					
teams					
Ward:					
Mulango					
Priority 1 (Drough	t)	Priority 2 (Er	ivironmental	Priority 3 (Huma	n Diseases
·	,	Degradation)		• `	
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required				n required	

Construction of mega earth dams	Wii Kwamuli Wikililye Kyangunga Kathungi Kyambiti Katulani	on required Rehabilita tion of degraded areas	Wii Kwamul i Wikilily e Kyangu nga Kathung i Kyambit i Katulani	Create awareness on health and sanitation	Wii Kwamuli Wikililye Kyangunga Kathungi Kyambiti Katulani
Extension of pipeline water supply	Wii Kwamuli Wikililye Kyangunga Kathungi Kyambiti Katulani	Communit y sensitizati on and awareness creation	Wii Kwamul i Wikilily e Kyangu nga Kathung i Kyambit i Katulani	Equipping existing health facilities, constructing new health facilities	Wii Kwamuli Wikililye Kyangunga Kathungi Kyambiti Katulani

Priority 1 (Drought	<del>(</del> )	Priority 2 (Envir Degradation)	ronmental	Priority 3 (Human D	iseases
Tseikuru					
Ward:					
	Katulani				
	Kyambiti				
	Kathungi				
tree growing	Kyangunga				
sites through	Wikililye				
of degraded	Kwamuli				
Rehabilitation	Wii				
	Katulani				
	Kyambiti				
	Kathungi				
	Kyangunga				
	Wikililye				
of sand dams	Kwamuli				
Construction	Wii				
	Katulani				
	Kyambiti				
•	Kathungi				
plant	Kyangunga				
purifying	Wikililye				
water	Kwamuli				
Establish a	Wii				

Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of mega earth dams	Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange Tseiukuru mulangoni	Improve response to human-wildlife conflict reports	Musavani , Kaningo, Katumbi, Mulango ni, Masyung wa	Create awareness on health and sanitation	Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange Tseiukuru mulangoni
Extension of pipeline water supply	Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange Tseiukuru mulangoni	Communit y sensitizati on and awareness creation on poaching and encroach ment	Kaivirya Kaningo Katumbi Masyun gwa Musava ni Ngalang e Tseiukur u mulango ni	Equipping existing health facilities, constructing new health facilities	Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange Tseiukuru mulangoni
Establish a water	Kaivirya Kaningo				

purifying	Katumbi		
plant	Masyungwa		
	Musavani		
	Ngalange		
	Tseiukuru		
	mulangoni		
Construction	Kaivirya		
of sand dams	Kaningo		
	Katumbi		
	Masyungwa		
	Musavani		
	Ngalange		
	Tseiukuru		
	mulangoni		
Rehabilitation	Kaivirya		
of degraded	Kaningo		
sites through	Katumbi		
tree growing	Masyungwa		
	Musavani		
	Ngalange		
	Tseiukuru		
	mulangoni		
Establishment	Kaivirya		
of tree	Kaningo		
nurseries at	Katumbi		
least 1 in each	Masyungwa		
village	Musavani		

Trainings and capacity building Climate Change planning teams  Construction of mega earth dams	Ngalange Tseiukuru mulangoni Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange Tseiukuru mulangoni Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange	Improve response to human-wildlife conflict reports	Kisiio, Lower Kituti, Mwamba ni, Katilini,	Create awareness on health and sanitation	Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange
Ward: Kivou	Tseiukuru mulangoni		Kilawa		Tseiukuru mulangoni
Priority 1 (Drough	<u>+)</u>	Priority 2 (E	 nvironmental	Priority 3 (Huma	nn Disaasas
Triority 1 (Drough	ι)	Degradation)	nvii oninciitai	1 Hority 5 (Huma	III Discases
Action or Intervention required	Where	Action or Interventi	Where	Action or Interventio n required	Where

		on			
		required			
Construction	Kivou	Rehabilita	Kivou	Create	Kivou
of mega earth	Kisana	tion of	Kisana	awareness	Kisana
dams	Ithumbi	degraded	Ithumbi	on health	Ithumbi
	Kyanika	areas	Kyanika	and	Kyanika
	kanzui		kanzui	sanitation	kanzui
Extension of	Kivou	Communit	Kivou	Equipping	Kivou
pipeline water	Kisana	У	Kisana	existing	Kisana
supply	Ithumbi	sensitizati	Ithumbi	health	Ithumbi
	Kyanika	on and	Kyanika	facilities,	Kyanika
	kanzui	awareness	kanzui	constructing	kanzui
		creation		new health	
				facilities	
Establish a	Kivou				
water	Kisana				
purifying	Ithumbi				
plant	Kyanika				
	kanzui				
Construction	Kivou				
of sand dams	Kisana				
	Ithumbi				
	Kyanika				
	kanzui				
Rehabilitation	Kivou				
of degraded	Kisana				
	Ithumbi				

sites through	Kyanika				
tree growing	kanzui				
Establishment	Kivou				
of tree	Kisana				
nurseries at	Ithumbi				
least 1 in each	Kyanika				
village	kanzui				
Trainings and	Kivou				
capacity	Kisana				
building	Ithumbi				
Climate	Kyanika				
Change	kanzui				
planning					
teams					
Ward:					
Miambani					
Priority 1 (Drought	)	Priority 2 (E	nvironmental	Priority 3 (Huma	n Diseases
		Degradation)			
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required		on		n required	
		required			
Construction	Nzaaya	Rehabilita	Nzaaya	Create	Nzaaya
of mega earth	Kanzau	tion of	Kanzau	awareness	Kanzau
dams	Kavalo	degraded	Kavalo	on health	Kavalo
	Mutual	areas	Mutual		Mutual

	Mung'ang'a		Mung'a	and	Mung'ang'a
	Kamandio		ng'a Kamand	sanitation	Kamandio
			io		
Extension of	Nzaaya	Communit	Nzaaya	Equipping	Nzaaya
pipeline water	Kanzau	y	Kanzau	existing	Kanzau
supply	Kavalo	sensitizati	Kavalo	health	Kavalo
	Mutual	on and	Mutual	facilities,	Mutual
	Mung'ang'a	awareness	Mung'a	constructing	Mung'ang'a
	Kamandio	creation	ng'a	new health	Kamandio
			Kamand	facilities	
			io		
Establish a	Nzaaya				
water	Kanzau				
purifying	Kavalo				
plant	Mutual				
	Mung'ang'a				
	Kamandio				
Construction	Nzaaya				
of sand dams	Kanzau				
	Kavalo				
	Mutual				
	Mung'ang'a				
	Kamandio				
Rehabilitation	Nzaaya				
of degraded	Kanzau				
	Kavalo				

sites through tree growing	Mutual Mung'ang'a Kamandio				
Establishment of tree nurseries at least 1 in each village  Ward: Endau	Nzaaya Kanzau Kavalo Mutual Mung'ang'a Kamandio				
Priority 1 (Drough	t)	Priority 2 Human/human conflicts)	(Human- -wildlife	Priority 3 (Huma	n Diseases
Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Construction of mega earth dams	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani	Improve response to human-human conflict reports	Twambu, Makuka, Katumbi, Ndetani	Create awareness on health and sanitation	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani

		Improve response to human-wildlife conflict reports	Kathua, Yiuku, Malalani		
Extension of pipeline water supply	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani	Communit y sensitizati on and awareness creation on poaching and encroach ment	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani	Equipping existing health facilities, constructing new health facilities	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani
Establish a water purifying plant	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani				
Construction of sand dams	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani				
Rehabilitation of degraded	Twambu, Makuka, Katumbi, Ndetani				

sites through	Kathua, Yiuku,				
tree growing	Malalani				
Ward:					
Mwingi					
Central					
<b>Priority 1 (Drough</b>	t)	Priority 2 (E	nvironmental	Priority 3 (Huma	n Diseases
		<b>Degradation</b> )			
Action or	Where	Action or	Where	Action or	Where
Intervention		Interventi		Interventio	
required		on		n required	
		required			
Construction	Mathyakani	Establish	Central	Construct	Mathyakani
of earth dams,	Mulanga	solid		new health	Mulanga
sand dams,	Kanzanzu	waste		facilities	Kanzanzu
and rock	Kalisasi	reuse and		across the	Kalisasi
catchment		recycle		ward	
		systems			
Promote CSA	Mathyakani	Develop	Mwingi	Increase the	Mathyakani
	Mulanga	waste	Municip	number of	Mulanga
	Kanzanzu	disposal	ality	community	Kanzanzu
	Kalisasi	regulatory		health	Kalisasi
	Central	framewor		promoters	Central
		k			
Trainings and	Mathyakani	Awareness	Mathyak	Equip	Central
capacity	Mulanga	and	ani	mwingi	
building	Kanzanzu	sensitizati	Mulanga		

farmers –	Kalisasi	on on	Kanzanz	level 4	
5,000 farmers	Central	environme	u	hospital	
across the		ntal	Kalisasi		
ward		protection	Central		
		across the			
		ward			
		Develop a	Mwingi	Sensitizatio	Mathyakani
		sewerage	Municip	n on health	Mulanga
		system	ality	and	Kanzanzu
			(Central	nutrition	Kalisasi
			village)	across the	Central
				ward	
Increase the	Mathyakani				
number of	Mulanga				
agriculture	Kanzanzu				
extension	Kalisasi				
officers by 1	Central				
per village					
Promote	Mathyakani				
sustainable	Mulanga				
livestock	Kanzanzu				
keeping	Kalisasi				
	Central				
Ward: Kitui					
Township					
Priority 1 (Poor W	aste Disposal)	Priority 2 (Wat	er Pollution)	Priority 3 (Air Pollution)	

Action or Intervention required	Where	Action or Interventi on required	Where	Action or Interventio n required	Where
Designate a new and appropriate solid waste dumping site	Outside the busy kalundu market	Constructi on of proper drainage and sewerage system	Kaveta Town Majengo Ngiini Kalundu	Develop air pollution control regulatory framework	Kitui municipality
Sorting solid waste at the source points (residential and commercial areas)	Kaveta Town Majengo Ngiini Kalundu	Install a water treatment plant	Kaveta Town Majengo Ngiini Kalundu	Train and sensitize institutions on air pollution control	Kitui municipality
Conduct public awareness and sensitization of proper waste disposal	Kaveta Town Majengo Ngiini Kalundu	Constructi on of a new and suitable solid waste dumping site	Kaveta Town Majengo Ngiini Kalundu		

Formulation	Kitui	Construct	Kaveta	
of waste	municipality	soil	Town	
management		conservati	Majengo	
policies and		on	Ngiini	
regulatory		structures	Kalundu	
framework				
Develop	Kitui	Formulate	Kitui	
regulatory	Municipality	water	municip	
framework for		pollution	ality	
Kitui County		control		
Waste		regulatory		
Management		framewor		
		k		
Establish a	Town			
solid waste	Majengo			
recycling	Kalundu			
plant				
Mobilize	Town			
organized	Majengo			
youth groups	Kalundu			
to develop				
solid waste				
recycling				
proposals				

## **5. Kitui County Climate Strategic Adaptation Investment/Action Priorities**

Table 5: Climate Strategic Adaptation Investment/Action Priorities

Strategic Objectives	Strategic	investment/Action	Expected results	Key
	Priority			interest/Stakeholders

1. Reduce risks to communities and	Participatory policy development	Established frameworks, regulations,	
infrastructure resulting from climate-		and incentives in the County to	
related disasters, such as droughts and		support adaptation efforts.	
floods			
	2. Sensitization on climate information	Communities empowered in climate	
		information services	
	3. Risk assessment and management	Drought early warning systems	
	(community preparedness to cope with	improved, including the promotion of	
	climate risks)		

	people-centered systems in the County	
	County Disaster and Emergency services Fund operationalized	
4. Enhanced social protection programs (households and entities benefiting from devolved adaptive services)		

	Climate resilient, energy-efficient	
	roads, energy, buildings)	
improve crop productivity through	Climate-resilient agricultural	
	practices, sustainable farming	
	techniques promoted and adopted.	
	Farmers adapting to changing climatic	
	conditions supported.	
		prove crop productivity through Climate-resilient agricultural plementation of CSA interventions practices, sustainable farming techniques promoted and adopted.  Farmers adapting to changing climatic

3. Enhance the resilience of the water	Promote water conservation practices,	Enhanced access to sustainable, safe,	
sector by ensuring adequate access to,	develop alternative water sources, and	affordable and adequate water for	
and efficient use of, water for agriculture,	manage water allocation during	domestic use and irrigated	
manufacturing, domestic use, wildlife,	droughts.	agriculture.	
and other uses.			
4. Increase Forest/tree cover to 10% of	Promotion of afforestation, reduction	Protected and restored natural	
total land area, rehabilitate degraded	of deforestation, restoration of	resources supporting lives and	
lands, including rangelands and, increase	degraded ecosystems, promotion of	livelihoods	
the resilience of wildlife.	sustainable charcoal production,		

	implementation of enabling actions,		
	and capacity development.		
5. Mainstream Climate Change	Strengthen public health systems to	Strengthened public health systems	
adaptation into the health sector, and	respond to climate-related health risks,	to respond to climate-related health	
increase the resilience of human	capacity building of healthcare	risks	
settlements, including through improved	providers, promotion of disease		
solid waste management in urban areas.	surveillance and monitoring systems,		
	development of healthcare policies and		
	guidelines.		

6. Promote energy and resource efficiency in the manufacturing sector	Promotion energy efficiency as a key enabler for optimization of manufacturing processes.	Improved energy efficiency (reduced greenhouse gas emissions) and enhanced resilience to Climate	
	(Affordability, secure, reliability and climate resilient energy supply)	Change impacts for a sustainable and low-carbon economy.	
7a. Ensure an electricity supply mix that is based mainly on renewable energy, is resilient to Climate Change, and promotes energy efficiency and	renewable energy and clean cooking technologies (Affordability, secure,	resilient renewable energy and clean	

encourage transition to clean cooking to	reliability and climate resilient energy		
reduce demand for fuelwood.	supply)		
7b. Establish efficient, sustainable,	Promotion of efficient, sustainable,	Affordable, safe, efficient and	
climate-resilient transport and logistics	climate-resilient transport systems	environmentally sustainable energy	
services		mix adopted	

Table 6: Ward Specific Action Priorities

Ward: Kauwi Priority 1 (Drought)		Priority 2 Degradation)	(Environmental	<b>Priority 3 (Human Diseases</b>	
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Desilting of 13 earth dams	Kwa samba Matinga, Kavuta, Kaiveti, Kwa Nzuki, Kwa Kyondo, Kwa Nguli, Muthumul a, Kisayani Mangelu Kwa Maondu,	Conservation of the catchment areas of the 13 earth dams	Matinga, Kavuta, Kaiveti, Kwa Nzuki, Kwa Kyondo, Kwa Nguli, Muthumula , Kisayani Mangelu Kwa Maondu, Kasue	Construct 5 new health facilities	Kyenge Kivani Mutini Katutu Mutanda

	KaVoo,		KaVoo,		
	Maukuni		Maukuni		
		Establish 6 tree nurseries of 30,000 seedlings of assorted species in each village; Mutini village, Kivani Village, Mutanda village, Katutu village, Kyenge Village, Kauwi village		Household level capacity building, Immunization campaigns, Screening diseases, sensitization and awareness creation on health matters	Mutini village, Kivani Village, Mutanda village, Katutu village, Kyenge Village, Kauwi village
Supply 10,000m <sup>3</sup> water	Primary	Rehabilitating	Degraded		
tanks to public	schools	and restoring	sites in		
institutions	Public	the degraded	Mutini		
	health	areas	village,		
	facilities		Kivani		
			Village,		
			Mutanda		
			village,		
			Katutu		
			village,		

required		Intervention required		or Interven	
<b>Action or Intervention</b>	Where	Action or	Where	Action	Where
Priority 1 (Drought)		Priority 2 Degradation)	Environmental	Priority 3 (Hu	man Diseases
Ward: Chuluni					
	village, Katutu village, Kyenge Village, Kauwi village	Mikuyuni, Kyenge, and Kauwi women groups			
Capacity build farmers and promote drought tolerant crops	Mutini village, Kivani Village, Mutanda	Support environment and Climate Change champions;	Kyenge Village, Kauwi Mikuyuni, Kyenge, Kauwi		

Construction of earth dams	Nguuni Kaluulu Kiliku Kwa Anoni	Rehabilitation of denuded sites through tree growing	Thua Kvuo Kisiro Kiongwe Mungure	Construct 5 new health facilities	Kangvu Kwa-wewa Kwa Mutei Kanzauwu Kiongwe
Construction of 6 sand dams	Kwa- nzangu Kyamuvyu Mililuni Nzuni Nziu Kwa Musengele	Sustainable land management for soil conservation	Thua, Kvuo Kisiro Kiongwe Mungure Ngungi Kyalele	Househol d level capacity building, sensitizat ion and awarenes s creation on health and nutrition in all villages	Ngungi village Kyanzai village Kenze village Kyalele village Kanduti village Ithumula village
Capacity build 6,000 farmers on CSA practices and promote growing drought tolerant crops in 6 villages	Ngungi village Kyanzai village Kenze village Kyalele village	Establish 6 tree nurseries in 6 villages	Ngungi village Kyanzai village Kenze village Kyalele village		

	Climate Change			
	uie waru			
	Capacity build	Ward level		
		Kanduti village Ithumula village		
	protection	village		
	Change and	village		
	in all villages	village		
	Capacity build	Ngungi		
village		village		
	Kanduti village Ithumula village	village Ithumula village  Capacity build and sensitize 6,000 farmers in all villages on Climate Change and environmental protection  Capacity build	village Ithumula village  Capacity build and sensitize 6,000 farmers in all villages on Climate Change and environmental protection  village Kanduti village  Kanduti village  Killage  Kanduti village  Kanduti village  Kanduti village  Kanduti village  Kanduti village  Kanduti village  Ithumula village	village Ithumula village  Capacity build and sensitize 6,000 farmers in all villages on Climate Change and environmental protection  Capacity build Ngungi village Village Village Village Village Village Village Village Village Kanduti Village Ithumula Village Ithumula Village

Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of Earth Dams	Kaloyo Kooi Ndilyani — kasambuya Ndivuni Kaveta Nzalani Muliluni	Training 7,000 farmers on the use of certified seeds, soil fertility Provision of climate information services to at least 7,000 farmers Recruitment of 7 additional agriculture extension officers	Ithumula Kathungu Kyatune Ndatani Yongela Nduundune Makele	Operatio nalize 7 health facilities, construct 7 new health facilities in all villages	Ithumula Kathungu Kyatune Ndatani Yongela Nduundune Makele
Construction of Sand dams	Menzai KamuNgu ni Ngunga Semea makele				

	) T		
	Nzeeu		
	Semea-		
	kathungu		
	Nzeeu –		
	muumbuni		
Water Pipeline	Extension		
extension	from		
	Kiangwa to		
	Kaveta		
	Kanguu		
	Pipeline		
	extension		
	from		
	Ithumula to		
	Windundu		
	and		
	rehabilitati		
	on of kwa		
	wangu line		
Capacity building and	Ithumula		
training 7,000 farmers	Kathungu		
on CSA in all villages	Kyatune		
	Ndatani		
	Yongela		
	Nduundun		
	e		
	Makele		

Training farmers on	Ithumula				
sustainable livestock	Kathungu				
keeping at village level	Kyatune				
	Ndatani				
	Yongela				
	Nduundun				
	e				
	Makele				
Ward: Ikutha/Kasala					
Priority 1 (Drought)		Priority 2 (human-wildlife conflict)		Priority 3 (Human Diseases	
Action or Intervention	Where	Action or	Where	Action	Where
required		Intervention		or	
		required		Interven	
				tion	
				required	
Capacity building 7,000	Kasala	Conduct anti-	Kasala,	Construct	Kasala
farmers in all villages	Kiangu	poaching	Ngwate,	7 health	Kiangu
on CSA	Kyoani	sensitization	Nzamba,	facilities	Kyoani
Extension of Kasala	Maani	and awareness	Ndili,	in all	Maani
market water project	Ngwate	Use of	Maaini	villages	Ngwate
Construction of 7 earth	Ndili	alternative		Operatio	Ndili
dams in all villages	nzamba			nalize all	nzamba

		materials for fencing Improve on response mechanisms by the KWS in the affected areas		health facilities	
Training 7,000 farmers on agroforestry Promote tree growing in 7 villages	Kasala Kiangu Kyoani Maani Ngwate Ndili nzamba				
Provide climate information services to 7,000 farmers in all villages					
Ward: Kanyangi Priority 1 (Drought)		Priority 2 (I Degradation)	Environmental	Priority 3 (Hu	man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven	Where

Construction of earth dams	Nzambia (Mwanzia) NZawa (Proposed) Kiseuni (Mue Makosi) Kitooni (Kwa Kamuti) Kanyongo nyo (Isiuni) Kalulini (Makovo) Kanyangi (Kivelenge )	Establishment of 6 tree nurseries with a total of 180,000 assorted species of seedlings	Kanyangi Kanyongon yo Kitooni Kiseuini Kalulini nzambia	tion required Operatio nalize and equip health facilities	Syomakanda Nzambia Ngomoni Kitooni
Construction of sand dams and shallow wells	Nzambia (Kwa Katulu) Kanyongo nyo (Musoloni)	Trainings on sustainable land management, rehabilitation of degraded lands, and	Kanyangi Kanyongon yo Kitooni Kiseuini Kalulini nzambia	Construct more health facilities	Kathiini Kalulini H.C Kanyongonyo Kiseuni Syomunyu

	Kitooni (Kwa Kimanzi) Kiseuni (Elijah Kitungu) Kalulini (Kwa Kilungu)	restoration activities		
Construction of sump wells	Tiva Kiesuni Kalulini (Ngomoni)		Capacity building, training, sensitizat ion and awarenes s creation on health and nutrition	Kanyangi Kanyongonyo Kitooni Kiseuini Kalulini nzambia
Construction of farm ponds	- Kanyo ngony o - Kiseu ni - Nzam bia			

	- Kanya ngi - Kaluli ni - Kitoo no
Installation of rain	Schools
water harvesting tanks	(One per
	village)
	Masimba
	(Kitooni)
	Kathiani
	(Kiseuni)
	Mwangeni
	(Kalulini)
	Kyunduni
	(Kanyongo
	nyo Yamunyu
	(Nzambia)
	Kangaatu
	(Kanyangi)
Ward: Kanziko	

Priority 1 (Drought)		Priority 2 Degradation)	· ·		Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where	
Construct 2 mega dams	1-mivuni 1-kituvwi	Deforestation awareness Use of alternative materials for fencing Better services by the Kfs Capacity building, planting trees 20000	Within Kanziko ward	Completi on and equippin g of uncomple ted dispensar ies - construct more health centers Upgradin g of existing and equippin g these facilities	-kakithya -vyulu -mwanianga  -kakindu -vutu -ndilili -kyanyaa	

Construct-5 earth dams	1- mwainaiga		-deploy more staffs	
	1- kivanndeni 1-kyanyaa 1-keutunda 1-simisi			
Construct 50 sand dams	10- keutundu 10- kivandeni/ mwnianga 10- ndilili/miv uni 10- kituvwu/ila mba 10- Ekani/simi si			
Ward: Kiomo/Kyethani				

Priority 1 (Drought)		Priority 2 (Crop pe	sts and diseases)	Priority 3 (Hu	Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where	
Afforestation, improved farming methods, Provision of climate information for planning. initiate income generating activities More veterinary officers Preserve pasture Construction of water sources, market linkage	Kiom Mbondoni Kavuvwani Kyethani Karura kairugu	Train more than 6,000 farmers  Explore irrigation potential	Kiomo Mbondoni Kavuvwani Kyethani Karura kairugu	Regular treatment Create awarenes s Improved sanitation Improve health facilities and provide adequate/ skilled personnel in all public health facilities	Kiomo Mbondoni Kavuvwani Kyethani Karura kairugu	
Regular spraying	Kiomo Mbondoni					

Construction of cattle	Kavuvwani				
dips and more water	Kyethani				
points, -regular	Karura				
vaccination, frequent	kairugu				
training of personnel					
Improvement of					
information flow					
Select breeds not					
susceptible to diseases					
Improve on safety for	Karura				
farmers and women					
around the crocodile					
and hippos infested					
areas					
Ward: Yatta/Kwa					
Vonza					
Priority 1 (Drought)		Priority 2 (Livestock dis	seases)	<b>Priority 3 (Human Diseases</b>	
<b>Action or Intervention</b>	Where	Action or	Where	Action	Where
required		Intervention		or	
		required		Interven	
				tion	
				required	
Revive IlikaAthi water	Ilika	Construction	Ilika	Training	Ilika
project, do	Kanyoony	of cattle dips,	Kanyoonyo	the	Kanyoonyoo
afforestation, introduce	00	awareness	0	communi	Mwitasyano
energy saving		creation about		ty on	Kawongo

jikos,extend masinga	Mwitasyan	the diseases,	Mwitasyan	preventiv	Nthongoni
phase 2 pipeline to	0	training	О	e health	Katothya
kanyoonyoo location,	Kawongo	paravets,	Kawongo	and in	
tap water from	Nthongoni	vaccination,	Nthongoni	particular	
Mwitasyano river to	Katothya	build earth	Katothya	about	
serve Kanyoonyoo, tap		dams and		water	
water from Tiva river to		slaughter		sanitation	
serve Kawongo and		houses,		and	
Nthongoni locations.		initiation of		hygiene	
Construct new earth		afforestation		Build	
dams at the following		and		more	
river streams -		establishment		health	
Katothya,		of tree		facilities	
KinuunuKasasuni,		nurseries and			
Kyango, Ngaindethya,		tree growing			
mumbunimasimbani.		programs			
Drill boreholes:					
equipping and					
extensions at the 52					
sites, construct sub					
surface dams, dig and					
equip up shallow wells					
on 90 sites,					
rehabilitation of					
existing boreholes –					
KatothyaNzokani,					
Ndovoini, Nthongoni					

borehole, proposed	
24new dam sites	
Easy access to spraying	Ilika
equipment and	Kanyoony
pesticides, use of pests	00
and diseases resistant	Mwitasyan
seeds, training on	0
farming and storage	Kawongo
methods	Nthongoni
	Katothya
Construction of cattle	Ilika
dips, awareness	Kanyoony
creation about the	00
diseases, training	Mwitasyan
paravets, vaccination,	0
build earth dams and	Kawongo
slaughter houses,	Nthongoni
initiation of	Katothya
afforestation and	
establishment of tree	
nurseries and tree	
growing programs	
Ward:	
Kyome/Thaana	

Priority 1 (Drought)		Priority 2 Degradation)	(Environmental	nvironmental Priority 3 (Human Diseases		
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where	
Construction of Earth dams	Kwa mbuta Katukoni Kwa muli- Mbooni Ndaluni Ngomeni Nguuni Kanyonyo oni Kwa tirya Kwa kitema Kwa muli vava Kwa sau kata Mavui ED Kwa silu	Tree growing and establish tree nurseries in every village	Kanyaa Thitani Winzyei Musuani Thokoa kyome	Construct a new health facility	Mavalani	

Construction of sand dams	Kwa mwanga Kamumbu ni Masaani- kwa vele Kwa mbutu Kwa mwandi Tyaa makunu Mavuu	Create awareness, sensitization, trainings and advocacy points	Kanyaa Thitani Winzyei Musuani Thokoa kyome	Equip health facilities	<ul> <li>Wikivuv wa</li> <li>Kitulani</li> <li>Thonzwe</li> </ul>
Installation of water	Kasavi				
harvesting tanks	ni primar				
	y				
	Kamut				
	ekeo				
	primar				
	y Kilela				
	primar				
	y				

	Kinyaa	
	primar	
	y	
	Kyome	
	primar	
	y	
	Kanyek	
	ini	
	dispens	
	ary	
Rock catchment water	Kathon	
harvesting	zooni	
	rock	
	Kisee	
	rock	
	Kalwal	
	a rock	
	Tumila	
	rock	
	Kwa	
	syangal	
	yo rock	
1		

Training farmers on	Kanyaa				
sustainable livestock	Thitani				
keeping, CSA	Winzyei				
g, ear	Musuani				
	Thokoa				
	kyome				
	Kyonic				
Words Matingoni					
Ward: Matinyani					
Priority 1 (Drought)		Priority 2	(Environmental	Priority 3 (Human Diseases	
		<b>Degradation</b> )			
<b>Action or Intervention</b>	Where	Action or	Where	Action	Where
required		Intervention		or	
•		required		Interven	
		1		tion	
				required	
Construction of earth	Kathuma	Tree growing,	Kyondoni	Construct	Katheuni village
dams	village	establishment	Katheuni	ion of a	
	Kwasonge	of tree	Kathuma	new	
	Syozangu	nurseries in all	Kaumu	health	
	Kauma	villages,	Kalimani	facility	
	village	sensitization	Maseki	,	
	Kwa	and awareness	1,1400111		
	mulwa	on			
	III a I W a	environmental			
		protection			
	1	protection			

	Kavumbu		
	ndiangu		
	kiwuni		
Desilting of earth dams	Katheuni/k		
	alia village		
	Kwa nzuki		
	E.D		
	Kanzevyu		
	E.D		
	(b)Kyondo		
	ni village		
	Munandani		
	E.D		
	(c)kalimani		
	village		
	Kwa ngiti		
	E.D		
	Kasavyu		
	E.D		
	(d)Kauma		
	village		
	Kwandune		
	E.D		
	Musosya		
	E.D		

Construction of sand	Katheuni		Equip	Matinyani health
dams	/kalia		health	center
	-Vyanyu		facilities	Kalimani
	river			dispensary
	Kwa			Kauma health
	kalanga			center
	mutia SD			Kaseki
	Kwa			dispensary
	mutonya			Kathuma
	kitonga SD			dispensary
	Ndolo			
	kivengele			
	SD			
	-Ngethwa			
	river			
	Kwa muli			
	ngombe			
	SD			
	Kwa daudi			
	kalingwa			
	SD			
	Maseki			
	village			
	Ndiangu			
	river			

T	I		
	Kwa		
	mbaluka		
	SD		
	Kwa		
	Katanga		
	SD		
	Kwa		
	Robert SD		
	-yumbuni		
	river		
	Kwa		
	kalungo		
	SD		
	Kwa		
	mbithi SD		
	Kauma		
	village		
	Mutindi		
	river		
	Kwa		
	muveseki		
	SD		
	-Kwa		
	mukui river		
	Kwa		
	kavale SD		
	Kavale SD		

-Mataaani	
kwa	
muthengi	
kitheu river	
Kwa	
muange SD	
-kaetha	
river	
Kwa	
muthwii	
SD	
-kithamba	
ngii river	
Kwa	
munyoki	
SD	
Kathuma	
village	
-	
kIkanga/K	
yatune	
river	
Kwa nzou	
SD	
Kwa kanau	
SD	

77		
Kwa		
masila SD		
-mukula		
river		
Kwa		
mwalimu		
SD		
Kwa kasele		
SD		
Kwa kethi		
SD		
-Syo		
nzangu		
river		
Kwa		
maluki SD		
Kwa bonny		
SD		
Kwa		
kyembeni		
SD		
-Mutendea		
river		
Kwa mutia		
SD		
Kwa		
ngemu SD		

-Ndiangu		$\neg$
river		
Kwa		
matheka		
ngui SD		
Kwa		
mukaiwa		
SD		
Kyondoni		
village		
-Syokakua		
stream		
Kwa		
mutual		
sumaine		
SD		
-		
kIkanga/K		
yatune		
river		
Kwa		
kivivuking		
oli SD		
-mutendea		
river		
Kwa mbaa		
nzuma SD		

-kavunilwa		
stream		
Kwa		
mutendwa		
musyoki		
SD		
-kungulu		
stream		
Kwa		
kasusya SD		
Kalimani		
village		
-syokiti		
river		
Kwa		
kitheka		
katiluSD		
Kwa		
mulanga		
SD		
Kwa kiluu		
SD		
Kwa		
nzomo		
mutual SD		

Kwa malati		
wa nzau		
SD		
-Kavuvu		
river		
Kwa		
kamanza		
SD		
Kwa		
mulandi		
SD		
Kwa		
katumi SD		
-kwa ngeli		
river		
Kwa lovi		
SD		
Kwa		
nguuni SD		
-kaayo		
river		
Kwa nduli		
SD		
Kyasoo SD		
Kathunguli		
SD		

	-mutendea river Kwa ngombalu.		
Extension of water pipelines	Katheuni /kalia -Vyanyu river Kwa kalanga mutia SD Kwa mutonya kitonga SD Ndolo kivengele SD -Ngethwa river Kwa muli ngombe SD		

	Kwa daudi		
	kalingwa		
	SD		
	Maseki		
	village		
	Ndiangu		
1	river		
	Kwa		
	mbaluka		
	SD		
	Kwa		
	Katanga		
	SD		
	Kwa		
	Robert SD		
	-yumbuni		
1	river		
	Kwa		
	kalungo		
	SD		
	Kwa		
	mbithi SD		
	Kauma		
	village		
	Mutindi		
1	river		

	1
Kwa	
muveseki	
SD	
Kwa	
nukui river	
Kwa	
xavale SD	
Mataaani	
xwa .	
nuthengi	
kitheu river	
Kwa	
nuange SD	
kaetha	
iver	
Kwa	
nuthwii	
SD	
kithamba	
ngii river	
Kwa	
nunyoki	
SD	
Kathuma	
village	
xIkanga/K	

	1			
atune				
ver				
Kwa nzou				
D				
Kwa kanau				
D				
Cwa				
nasila SD				
mukula				
ver				
Kwa				
nwalimu				
D				
Kwa kasele				
D				
Kwa kethi				
D				
Syo				
ver				
Kwa				
naluki SD				
Kwa bonny				
D				
Kwa				
Ď				
	wer wa nzou D wa kanau D wa asila SD nukula ver wa walimu D wa kasele D wa kethi D Syo zangu ver wa aluki SD wa bonny D wa yembeni	wa nzou D wa kanau D wa kanau D wa asila SD nukula ver wa walimu D wa kasele D wa kasele D wa kethi D Syo zangu ver wa aluki SD wa bonny D wa yembeni	wa nzou D wa kanau D wa kasila SD nukula wer wa walimu D wa kasele D wa kethi D Syo zangu wer wa aluki SD wa bonny D wa yembeni	wa nzou D wa kanau D wa kasila SD nukula wer wa walimu D wa kasele D wa kethi D siyo cangu wer wa alluki SD wa bonny D wa bonny D wa wa wer wa w

-Mutendea	
river	
Kwa mutia	
SD	
Kwa	
ngemu SD	
-Ndiangu	
river	
Kwa	
matheka	
ngui SD	
Kwa	
mukaiwa	
SD	
Kyondoni	
village	
-Syokakua	
stream	
Kwa	
mutual	
sumaine	
SD	
-	
kIkanga/K	
yatune	
river	

uking		
a SD		
nilwa		
n		
gulu		
n		
ya SD		
nani		
	nilwa n ndwa oki gulu n	mbaa a SD nilwa n ndwa oki ulu n ya SD nani e iti

Kwa kiluu		
SD		
Kwa		
nzomo		
mutual SD		
Kwa malati		
wa nzau		
SD		
-Kavuvu		
river		
Kwa		
kamanza		
SD		
Kwa		
mulandi		
SD		
Kwa		
katumi SD		
-kwa ngeli		
river		
Kwa lovi		
SD		
Kwa		
nguuni SD		
-kaayo		
river		

	Kwa nduli SD Kyasoo SD Kathunguli SD -mutendea river Kwa ngombalu.		
Rain water harvesting in public institutions	-maini primary -kivanga primary -kyeni primary school -kwa musyimi primary -matinyani AIC primary school		

	-mbavae		
	primary		
	school		
	-katheoni		
	primary		
	school		
	-kunikila		
	primary		
	school		
	-kwa		
	ndonga		
	primary		
	school		
	-kakumi		
	primary		
	school		
	-kitumbi		
	primary		
	school		
	-maseki		
	primary		
	school.		
Train farmers on CSA,	Kyondoni		
provide farmers with	Katheuni		
climate information	Kathuma		
services	Kaumu		
	Kalimani		

	Maseki				
Ward: Migwani					
Priority 1 (Drought)		Priority 2 Degradation)	`		man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of earth dams in all villages	Migwani Kyamboo Nzeluni Nzatani Kisovo Katalwa	Tree growing activities, establish tree nurseries across all the villages, sensitize and create awareness on environmental conservation across all the villages	Migwani Kyamboo Nzeluni Nzatani Kisovo Katalwa	Construct new and operation alize existing health facilities across all the villages	Migwani Kyamboo Nzeluni Nzatani Kisovo Katalwa
Construction of sand dams	Migwani Kyamboo Nzeluni	Construction of soil conservation	Migwani Kyamboo Nzeluni		

	Nzatani	structures in	Nzatani		
	Kisovo	degraded areas	Kisovo		
	Katalwa		Katalwa		
Rock catchment water	Migwani				
harvesting	(itoloni)				
Training at least 6,000	Migwani				
farmers on CSA across	Kyamboo				
all villages	Nzeluni				
	Nzatani				
	Kisovo				
	Katalwa				
Ward: Mumoni					
Priority 1 (Drought)	1	Priority 2 Degradation)			p pests and diseases)
<b>Action or Intervention</b>	Where	Action or	Where	Action	Where
required		Intervention		or	
		required		Interven	
				tion	
				required	
Construction of earth	Katse	Rehabilitation	Muvanwa	Provision	Kakuyu
dams	mbalani	of	mukonga	of	Mukonga
	Kasioni	environmentall	Muvarwa	improved	Mutanda
	nguuku	y sensitive sites	kathiani	farm	Ngungani
	Kakuyu			inputs	Nguuku
	ngakoone				Tyaa

Itinda muti	Kanyululu	Increasin	Katse
Kakunguru	muumo	g the	
Ikango kwa	hills	number	
semard		of	
		extension	
		officers	
		from 4 to	
		7	
		Sensitizat	
		ion on	
		crop	
		managem	
		ent	
		Subsided	
		storage	
		bags e.g	
		hermetic	
		bags	
		Setting	
		up	
		modern	
		silos	
		Sensitizat	
		ion on	
		cereal	
		storage	

				Capacity	
				building	
				farmers	
				on	
				improved	
I				farming	
				methods	
				Delocaliz	
				ation of	
				capacity	
				building	
				initiative	
Rehabilitation of earth	Kamakuyu	Reforestation	Kakuyu		
dams	eath dam	using	Mukonga		
	Kaliwa	indigenous	Mutanda		
	earth dam	species	Ngungani		
	Kwa	Construction	Nguuku		
	ngomo	of soil	Tyaa		
I	earth dam	conservation	Katse		
	Miminali	across all			
	earth dam	villages			
	Kambusu				
	earth dam				
	Katingulu				
	earth dam				
	Musasya				
	earth dam				

	Matingani		
	earth dam		
	Nduloni		
	earth dam		
Construction of sand	Wanzelu		
dams	Kimii kwa		
	nzoka		
	Kakiko		
	kwa		
	syengo		
	Ithamboni		
	musonga		
	Kakuadedu		
	Iviani kwa		
	ngai		
	Kwa		
	katingu		
	Kwa		
	musyoka		
	Kwa kasau		
	Mukindu		
Rain water harvesting	Kavisani		
Kain water harvesting			
	primary		
	school		
	Musenya		
	primary		
	school		

	Mbarani
	primary
	school
	Ithozwi
	primary
	school
	Itinda
	primary
	school
	Kikuthini
	primary
	school
	Mukokene
	dispensary
	Kaliani
	primary
	school
Water pipeline	Katse –
distribution	mbalani
distribution	water pipe
	Kathioni –
	mutioni – mutioni –
	mwosya B: I:
	Pipeline
	Mutioni –
	syomuti –
	kamathitu

	Kaliwa –				
	yangalisu –				
	kambusu				
	Ngaani –				
	kangomo –				
	ikongo				
	Ithingili –				
	ngaaka –				
	kasyalani				
	Katukatuu				
	mi –				
	ngingi –				
	musukami				
	oni				
Ward: Mutha					
Priority 1 (Drought)		Priority 2 (human-wildlife conflict)		Priority 3 (Human Diseases	
Action or Intervention	Where	Action or	Where	Action	Where
required		Intervention		or	
		required		Interven	
				tion	
				required	
Water harvesting	Katune	Improve	Ndasani,	Construct	Katune
through construction of	Mwengea	response to	Kalia	ion of	Mwengea
earth dams, improve	Kalambani	human-	Katune,	new	Kalambani
quality and drought	Kiimani	wildlife	Ngaani,	health	Kiimani
1			Katene		

tolerant crops, improve	Ndakani	conflict by the	kalambani,	facilities,	Ndakani	
the quality of local	Ngaani	KWS	Ikaa	operation	Ngaani	
livestock breeds across	isaa			alize	isaa	
all the villages				existing		
				health		
				facilities		
				and equip		
				the health		
				facilities		
Ward: Mutito						
Priority 1 (Drought)			·		Priority 3 (Human Diseases	
		<b>Degradation</b> )				
Action or Intervention	Where	Action or	Where	Action	Where	
required		Intervention		or		
		required		Interven		
		1				
		1		tion		
		-		required		
Water harvesting (earth	Masasini	Protection of	Mutito hills	required Operatio	Masasini	
dams, sand dams and	Kitoo	-	Mutito hills	required Operatio nalization	Kitoo	
	Kitoo Musukini	Protection of	Mutito hills	required Operatio nalization of health	Kitoo Musukini	
dams, sand dams and	Kitoo Musukini Kyaimu	Protection of	Mutito hills	required Operatio nalization of health facilities	Kitoo Musukini Kyaimu	
dams, sand dams and	Kitoo Musukini Kyaimu Kalawa	Protection of	Mutito hills	required Operatio nalization of health facilities across all	Kitoo Musukini	
dams, sand dams and	Kitoo Musukini Kyaimu Kalawa - Mutito	Protection of	Mutito hills	required Operatio nalization of health facilities across all villages,	Kitoo Musukini Kyaimu	
dams, sand dams and	Kitoo Musukini Kyaimu Kalawa	Protection of	Mutito hills	required Operatio nalization of health facilities across all	Kitoo Musukini Kyaimu	

				health facilities across all the villages, equiping health facilities across all the villages	
Ward: Ngomeni					
Priority 1 (Drought)		Priority 2 (human-human conflict)		Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of earth dams, sand dams, water pipeline distribution across the ward	Kavaani Mitamisyi Kalwa Kimela Ndatani Syumani Kathalaani	Sensitization and awareness, equal distribution of resources, surveying the disputed	Kimela, Syumani, Mitamisyi, Kathalaani, Kavaani, Ikame	Construct new health facilities across the villages, equip	Kavaani Mitamisyi Kalwa Kimela Ndatani Syumani Kathalaani

		resources, increasing the number of water sources	health facilities across the villages, operation alize the stalled	
			health facilities	
Promote pasture growing across the ward	Kavaani Mitamisyi Kalwa Kimela Ndatani Syumani Kathalaani		racintres	
Sensitization and awareness creation on environmental conservation and protection Capacity building local farmers on sustainable livestock keeping	Kavaani Mitamisyi Kalwa Kimela Ndatani Syumani Kathalaani			
Ward: Nguni				

Priority 1 (Drought)		Priority 2 (Livestock	Diseases)	Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Water tanks for rain water harvesting	Nguni primary school Mwasuma primary school Kamumbu primary school Kavisu primary school Kwanzili primary school Katune primary school Muimi primary school	Construction of modern crushes	Ivuusya site Kithumula site Kavisu site Kiangu site Kiamumo site Sosoma site Levuni site Ukasi site	Construct ion of new health facilities	Muuni dispensary Ndiamumo Dispensary Kiangu dispensary Masavi dispensary Mosovo dispensary

	Kitungali primary school Kwa nganga primary school				
Rock catchment water harvesting	Maai hills and Imba hills	Employ more veterinary officers	Mwasuma village Mathiakani village Maai village Mbuvu village	Equip health facilities	Sosoma dispensary Musovo dispensary Ndiamumo dispensary
Desilting earth dams	Nzengeni earthdam Kaluku earth dam Kwanzili earthdam Kiio earth dam Ukasi earthdam	Farmers to be trained on the type of pastures to grow, how to harvest and store pasture	Mwasuma village Mathiakani village Maai village Mbuvu village	Sensitizat ions, promotin g communi ty health promoter s	Across all villages

Construction of new	Kawala		
earth dams	earthdam		
	Kamunyu		
	earthdam		
	Kwa		
	mwondu		
	earthdam		
	Kwandamu		
	earthdam		
	Kwa		
	mulinde		
	ED		
	Kwa		
	mutembuk		
	a ED		
Construction of sand			
dams	Kwa isuo		
	river kwa		
	mutuku SD		
	Enziu river		
	Kanzu SD		
	Kivou river		
	MwelamaS		
	D		
	Thunguthu		

		1
Kwa nziu		
SD		
Katuti river		
Katuti		
Sand dam		
Iseeni river		
Kwa		
kasaika SD		
Masavi to		
Maai		
Kilawa to		
Mwasuma		
primary to		
Chamatani		
primary		
To Kwa		
nguti		
primary to		
syonoo		
primary		
Tiva hills		
to Machui		
to Miuni		
1,114111		

Ward: Tharaka					
Priority 1 (Drought)		Priority 2 (crop pes	Priority 2 (crop pests and diseases)		man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Water harvesting through; - construction of earth dams - construction of sand dams - installation of water tanks in public institutions across the ward	Gacingong o Kanyengya Kamaindi Kanthungu Gakombe	Construction of 5 cattle dips	Gacingong o Kanyengya Kamaindi Kanthungu Gakombe	Construct at least 6 health facilities	Gacingongo Kanyengya Kamaindi Kanthungu Gakombe
Tree growing - establishment of 1 tree nurseries per village	Gacingong o Kanyengya Kamaindi Kanthungu Gakombe	Promote local breeds	Gacingong o Kanyengya Kamaindi Kanthungu Gakombe	Equip the existing health facilities	Gacingongo Kanyengya Kamaindi Kanthungu Gakombe
Promoting pasture production across the ward	Gacingong o Kanyengya Kamaindi	Training and capacity building of at	Gacingong o Kanyengya Kamaindi	Sensitizat ion and awarenes s across	Gacingongo Kanyengya Kamaindi Kanthungu

	Kanthungu Gakombe	least 6,000 farmers	Kanthungu Gakombe	the ward on health and nutrition Promote communi ty health promoter s across the ward	Gakombe
Sensitization and awareness creation on environmental protection	Gacingong o Kanyengya Kamaindi Kanthungu Gakombe	Employ at least 6 more livestock officer	Gacingong o Kanyengya Kamaindi Kanthungu Gakombe		
Construction of water abstraction strategies from the tana river	Along tana river				
Ward: Waita					
Priority 1 (Drought)		<b>Priority 2 (Crop Pests a</b>	and Diseases)	<b>Priority 3 (Human</b>	Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven	Where

					tion required	
Rehabilitation	of	Kiriri	Promote	Waita	Construct	Katuluni
shallow wells		shallow	drought	Mwambui	ion of	dispensary
		well	tolerant crops	Thonoa Kathoka	health centers	Maongoa
		Jordan Shallow		Nyanyaa Enziu		Dispensary
		well		Enzia		Malioni
		Kwan				dispensary
		ganga				KauNguni
		kavengei				dispensary
		SW				Ikuusya
		Mavivani				Dispensary
		kwa mbiti				
		SW				Kulungwa
		Kwa musili				dispensary
		kamotho				Kisole
		SW				dispensary
		NauNguni primary SW				Kya ndua dispensary

Rock catchment water harvesting	Thonoa rock cathment Kavila Ruguti Dungura Mukuni Kilyamboo Kwa syengo munithya	Train and capacity farmers on CSA	n	Waita Mwambui Thonoa Kathoka Nyanyaa Enziu	Equip health centers	Waita dispensary  Mutwangombe dispensary  Enziu dispensary  Nyaanyaa dispensary  Muono dispensary  Mwambui dispensary
Construction of earth dams	Kaliluni E.D Kyandoas earth dam MunyuNgu ni earthdam Katanga earth dam Kasura earthdam					

	Ndologwe E.D Kathamban dia E.D Kwa mwanzia E.D Kisole E.D Kwa kimwele E.D Kiia E.D	
Construction of earth dams	Nginyei earthdam Kwa kisilu earthdam Kwa maithya earthdam Maongoa earthdam Kaulyamb u E.D Ilinyi ED Waita ED	

	Mutembuk
	a ED
	Kwa kasee
	ED ED
	Kwa mutia
	ED ED
	Nzalani ED
	Kwa
	Michael
	ED ED
	Masokani
	ED ED
	Kwa titus
	mboo ED
Construction of sand	Karuri
dams	river
	Karuri SD
	Kivila river
	Kwa kilile
	SD
	Mbiri river
	Kwa iliu,
	Kwa
	mwendwa,
	Kwa
	muchaSD

Kas	sura		
rive			
Kwa			
mwe	rende,		
kwa	a vaivui,		
kwa			
	tisya SD		
	voono e		
rive			
Kwa			
	thui wa		
mut	thengi,		
	umbe ,		
kwa	a l		
mue			
	d dam		
	nyekini		
rive			
Kwa			
	vaniki,		
	a koko		
SD			
	tembuk		
	ver Kwa		
	onzo		
	memde		
SD			

Musiiulu		
river		
Kwa		
kitulya ,		
kwa paul		
SD		
Kamunyu		
river		
Kamunyu		
ilovi, Kwa		
mwanda		
SD SD		
Kivila river		
Kwa		
mwangang		
iSD		
Katakani		
river		
Kwa musili		
SD		
Kitwa		
mikeu river		
Kwa		
mwendwa		
kimwele,		
kwa		

	56110013,	conservation structures	ni Malatani	new	- Kadongo	
tanks	schools;	of soil	Ilaa/Katiko	ion of	- Katikoni	
Rain water harvesting	Primary	Construction	Kikuu	Construct	- Kavingo	
				required		
		required		tion		
required		Intervention		or Interven		
	vvnere		vvnere		vvnere	
Action or Intervention	Where	Degradation) Action or	Where	Action	Where	
Priority 1 (Drought)			Priority 2 (Environmental		<b>Priority 3 (Human Diseases</b>	
Ward: Zombe						
	SD					
	Kwa ivia					
	kombe,					
	Kwa					
	Lenye river					
	titus SD					
	Nginyai river kwa					
	ele SD					
	murokalev					

	6. Makon go 7. Kaluli 8. Katikon i 9. Kivisuni 10. Mavia Mayo	targeting farming lands in all villages	Makongo Thua kasuNguni	health facilities	<ul><li>Kongwea</li><li>Nzilani</li><li>Imbuvi</li><li>Kaavani</li></ul>
Construction of earth dams	- Ngelani dam - Kilimbo ni - Yimbun i - Ya wii - Nzilani - Kasulul u	Training on commercial tree growing Establishing tree nurseries in all villages Sensitization and awareness creation on environmental conservation Promoting alternative livelihoods to commercial	Kikuu Ilaa/Katiko ni Malatani Makongo Thua kasuNguni	Equippin g and operation alize health facilities	Zombe Hospital Ngungi Dispensary

		charcoal production		
Construction of sand	- Ngungi			
dams	River			
	- Maang			
	ani			
	River			
	- Nguuni			
	stream			
	- Kithum			
	ula			
	Stream			
	- Mwing			
	а			
	Stream			
	- Musavi			
	Stream			
	- Kathan			
	di			

Ward: Kyuso					
Priority 1 (Drought)		Priority 2 Degradation)	(Environmental	Priority 3 (Hu	man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of sand dams	Thunguthu (Kwa Mwendwa Ngumbi) Kivila (kwa kilo/Kithek a) Kivila(kwa Yengo) Ikinda(kwa peter kimii) Kamwong o(kwa kalundu) Masyungw	9 trree growing sensitization activities  Establishing at least 1 tree nursery in every village  Construction of household level soil conservation structures in farming lands across the ward	Itiva/Nzou Kamula Kamuwong o Kimangao Kimu Mivukoni Ngaaie Twimyua kyuso	Improve and equip health facilities across the villages  Awarene ss on hygiene and sanitation  Improve accessibil ity to the	Itiva/Nzou Kamula Kamuwongo Kimangao Kimu Mivukoni Ngaaie Twimyua kyuso

	Mathimam	health
	i	centers
		Increase the number of ambulanc es from 1-2
Construction of earth	Kwa	
dams	Mwilikwa	
	Kisinga	
	Ngiluni(kw	
	a Musili	
	Muli)	
	Mauwani(k	
	wa	
	Mwendwa	
	Ngumbi)	
	Katungulu(	
	kwa	
	Musembi	
	Muasya)	
	Kasyongo(	
	kwa	

	Muasya	
	Nzuku)	
	Katwenyw	
	l e	
	Manana(k	
	wa Kivulu)	
	Kwa	
	Sammy	
	Mwangang	
	i   I	
	Ngaana	
	kwa	
	Ngundu	
Water pipeline	Itiva	
extension	nzou(Tii	
	market)	
	Mivukoni(	
	kwa Vere)	
	Mbui	
	borehole(k	
	wa Mue)	
	Ndathani	
	borehole(k	
	wa	
	Muthimbi	
	market)	

	Kyuso(Mal ava) Kyuso(Mik wa) Ngaie(Mik wa) Kora(Muk		
D 1 122 C - 1	eka)		
Rehabilitation of earth	Mbui earth		
dams	dam		
	Kamulu		
	earth dam		
	Maanzui		
	earth dam		
	Tii earth		
	dam		
	Kamavui		
	earth dam		
	Ngai earth		
	dam		
Rain water harvesting	Kitangui		
tanks (10,000L each)	primary		
	school		
	Mugero		
	primary		
	school		

	Kingingo					
	primary					
	school					
	Mutambani					
	primary					
	school					
	Kaliani					
	primary					
	school					
	Kanana					
	primary					
	school					
	Kamwengi					
	primary					
	school					
Ward: Athi						
Priority 1 (Drought)		Priority 2 (Hu	man-Wild	llife conflict)	Priority 3 (Human	Diseases
Action or Intervention	Where	Action or	•	Where	Action	Where
required		Intervention			or	
		required			Interven	
					tion	
					required	
Construction of mega	Tiva	Improve		Kisiio,	Create	Maluma
earth dams	River, and	response to	)	Lower	awarenes	MoNguni

	Ndilui stream meeting point At ndilui stream (Ngomano) Rehabilitat ion of Nguni earth dam	human-wildlife conflict reports	Kituti, Mwambani, Katilini, Kilawa	s on health and sanitation	Upper kituti Lower kituti Katilini Kilawa Kisiio Makaiye Kalivu
Extension of pipeline water supply	Kangu pipeline to other villages	Community sensitization and awareness creation on poaching and encroachment	Kisiio, Lower Kituti, Mwambani, Katilini, Kilawa	Equippin g existing health facilities, constructi ng new health facilities	Maluma MoNguni Upper kituti Lower kituti Katilini Kilawa Kisiio Makaiye Kalivu
Establish a water purifying plant	Muangeni, moNguni, ilengi, nduuni, kyanduuni				
Construction of sand dams	Along Tiva Kwa kituku				

		1		,
	Kwa nzaki			
	Kwa			
	ho.Muoki			
	Kwa Tisya			
	Kwa			
	Kisingo			
	Kwa			
	Matemani			
	Kwa			
	kasoka			
	Kwa			
	imathoka			
Rehabilitation of	Mbakoni			
degraded sites through	Kisiio			
tree growing	Lower			
	kituti			
	Upper			
	Kitui			
Establishment of tree	Maluma			
nurseries at least 1 in	MoNguni			
each village	Upper			
	kituti			
	Lower			
	kituti			
	Katilini			
	Kilawa			

	Kisiio				
	Makaiye				
	Kalivu				
Trainings and capacity	Maluma				
building Climate	MoNguni				
Change planning teams	Upper				
Change planning teams	kituti				
	Lower				
	kituti				
	Katilini				
	Kilawa				
	Kisiio				
	Makaiye				
	Kalivu				
	Kanva				
Ward: Voo Kyamatu					
Priority 1 (Drought)		Priority 2 (Degradation)			man Diseases
Action or Intervention	Where	Action or	Where	Action	Where
required		Intervention		or	
		required		Interven	
				tion	
				required	
Extension of water	From	Rehabilitation	Kinzou	Construct	Kyango
pipeline	Muthungu	of water	Inguu	ion of	Imale

	to Itikie to	catchment	Malembwa	new	Muthungue
	Kamwiu to	areas	kaluasi	health	Kyamatu
	Nditine			facilities	NzuNguni
	From				
	NzuNguni			Equippin	
	to Ndulani,			g of	
	Kithekethe,			existing	
	Twalimu to			health	
	makutano			facilities	
Construction of earth	Kyandeve	Ecosystem	Wangila		
dams	Kemwaa	restoration and	Mbuku		
	Kwa muii	soil	Mwinga		
	Kwa ngila	conservation	Kwa muti		
	Kwa mbaa	through check	Kwa		
	ndungi	dams	kimande		
	Masimbani		Kyanngo		
	Katulu		Ikukuma		
	Kwa		Kamakuvu		
	muvithu		Kanzilu		
	Menguuwe		Isalava		
	Indoo				
	Kwa				
	mulatya				
	Kwa				
	musyoka				
	Syetundo				
Sumpwells	Kaluasi				

Ward: Kisasi			
human-wildlife conflict reported	t and Muthungue		
Improve response on	n Kyamatu		
Improve response on human-human conflict reported			
Desilting earth dams  Improve response on	Kwanzung u nditime Kwa Mwangu kamwiu Thua Tukili Ikitioni Kwa Mbivya Kithanako Kwa Kalavati Kwa Kalowe Katolongw e N		

Priority 1 (Drought)		Priority 2 (Environmental Degradation)		Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of earth dams and sand dams	Kwa mutunga Kwa katumi Kwa kalovo Isyuko ikuthumula Mililuni Kwa kakonge nungu Kwa philomena muthoka Kwa kimote Kaloloo Nduni Mwala ivu	Designate a solid waste dumping site	Mosa	Inclusion of 10 communi ty health promoter s per vilage	Masimbini Maaliku Mbusyani Kavisuni Ngiluni Mosa nguuni

	Kya mioni				
	Koma one				
	Koma two				
	Nzeeu				
	ilungusu				
	Kwa kyalo				
	Kwa				
	kinyoo				
	Kilonzo				
	Kwa				
	maluki				
	Kilonzo				
	Kwa				
	kaamba				
	Kitamba				
	Miumbu				
	Katakali				
	Koma kwa				
	john				
	Ngasani				
	Kwa isoni				
	katombya				
	Kiwa ngei				
Rock catchment water	Ituki	Establish tree	Masimbini	Sensitizat	Masimbini
harvesting	Kwa	nurseries at	Maaliku	ion and	Maaliku
	nduluku	least one in	Mbusyani	awarenes	Mbusyani
	Mbuthani	each village	Kavisuni	s on	Kavisuni

	Mathendu	Ngiluni	health	Ngiluni
	Nguutu	Mosa	and	Mosa
	Muloso	nguuni	nutrition	nguuni
Water harvesting tanks	Masimbini			
	Ngiluni			
	Mbusyani			
	Maaliku			
	Kavisuni			
	Nguuni			
	Mosa			
Water pans	Each			
	village 3			
	water pans			
	and 3 farm			
	ponds			
Distribution of piped	Kisasi to			
water	savat			
	Kisasi to			
	kivini			
	Maaliku to			
	mission			
	Ngiluni to			
	tunduni			
	kasevi			
	Kavasya to			
	mathumbi			
	ndivo			

	Mbusyani		
	to		
	kilimbitini		
	Kavisuni to		
	kivuthi		
Promote drought	Masimbini		
tolerant crops and CSA	Maaliku		
•	Mbusyani		
	Kavisuni		
	Ngiluni		
	Mosa		
	nguuni		
Employ more extension	Masimbini		
agriculture officers	Maaliku		
	Mbusyani		
	Kavisuni		
	Ngiluni		
	Mosa		
	nguuni		
Employ more extension	Masimbini		
livestock officers	Maaliku		
	Mbusyani		
	Kavisuni		
	Ngiluni		
	Mosa		
	nguuni		

Promote poultry	Masimbini				
farming	Maaliku				
	Mbusyani				
	Kavisuni				
	Ngiluni				
	Mosa				
	nguuni				
Ward: Nuu					
Priority 1 (Drought)	I	Priority 2 Degradation)	·		man Diseases
<b>Action or Intervention</b>	Where	Action or	Where	Action	Where
required		Intervention		or	
_		required		Interven	
		_		tion	
				required	
Construction of mega	Nuu	Improve	Nuu,	Create	Nuu
earth dams	Mutyango	response to	Mwambiu,	awarenes	Mutyangombe
	mbe	human-	Wingemi,	s on	Mwambiu
	Mwambiu	wildlife	Kyangati,	health	Nyaani
	Nyaani	conflict reports	Nyaani,	and	Wingemi
	Wingemi		Mutyangom e, Nguuni	sanitation	Nguuni
	Nguuni		e, nguum		kyangati
	kyangati				
Extension of pipeline	Kangu	Community	Nuu,	Equippin	Nuu
water supply	pipeline to	sensitization	Mwambiu,	g existing	Mutyangombe

	other villages	and awareness creation on poaching and encroachment	Wingemi, Kyangati, Nyaani, Mutyangom e, Nguuni	health facilities, constructi ng new health facilities	Mwambiu Nyaani Wingemi Nguuni kyangati
Establish a water purifying plant	Nuu				
Construction of sand dams	Nuu Mutyango mbe Mwambiu Nyaani Wingemi Nguuni kyangati				
Rehabilitation of degraded sites through tree growing	Nuu Mutyango mbe Mwambiu Nyaani Wingemi Nguuni kyangati				
Establishment of tree nurseries at least 1 in each village	Nuu Mutyango mbe				

	Mwambiu				
	Nyaani				
	Wingemi				
	Nguuni				
	kyangati				
	Makaiye				
	Kalivu				
Trainings and capacity	Maluma				
building Climate	MoNguni				
Change planning teams	Upper				
	kituti				
	Lower				
	kituti				
	Katilini				
	Kilawa				
	Kisiio				
	Makaiye				
	Kalivu				
Ward: Mui					
Priority 1 (Drought)		Priority 2 (EDegradation)	Environmental	Priority 3 (Hur	man Diseases
<b>Action or Intervention</b>	Where	Action or	Where	Action	Where
required		Intervention		or	
-		required		Interven	

				tion	
	- 11			required	
Construction of mega	Itiko	Rehabilitation	Itiko	Create	Itiko
earth dams	Kitise	of degraded	Kitise	awarenes	Kitise
	Ngungi	lands	Ngungi	s on	Ngungi
	Ngoo		Ngoo	health	Ngoo
	Ngiluni		Ngiluni	and	Ngiluni
				sanitation	
Extension of pipeline	Itiko	Community	Itiko	Equippin	Itiko
water supply	Kitise	sensitization	Kitise	g existing	Kitise
	Ngungi	and awareness	Ngungi	health	Ngungi
	Ngoo	creation on	Ngoo	facilities,	Ngoo
	Ngiluni	encroachment	Ngiluni	constructi	Ngiluni
				ng new	
				health	
				facilities	
Establish a water	Itiko				
purifying plant	Kitise				
	Ngungi				
	Ngoo				
	Ngiluni				
Construction of sand	Itiko				
dams	Kitise				
	Ngungi				
	Ngoo				
	Ngiluni				

Rehabilitation of	Itiko				
degraded sites through	Kitise				
tree growing	Ngungi				
	Ngoo				
	Ngiluni				
Establishment of tree	Itiko				
nurseries at least 1 in	Kitise				
each village	Ngungi				
	Ngoo				
	Ngiluni				
Trainings and capacity	Itiko				
building Climate	Kitise				
Change planning teams	Ngungi				
	Ngoo				
	Ngiluni				
Construction of mega	Itiko	Improve	Itiko	Create	Itiko
earth dams	Kitise	response to	Kitise	awarenes	Kitise
	Ngungi	human-	Ngungi	s on	Ngungi
	Ngoo	wildlife	Ngoo	health	Ngoo
	Ngiluni	conflict reports	Ngiluni	and	Ngiluni
				sanitation	
Extension of pipeline	Itiko	Community	Itiko	Equippin	Itiko
water supply	Kitise	sensitization	Kitise	g existing	Kitise
	Ngungi	and awareness	Ngungi	health	Ngungi
	Ngoo	creation on	Ngoo	facilities,	Ngoo
	Ngiluni	poaching and	Ngiluni	constructi	Ngiluni
		encroachment		ng new	

				health facilities	
Ward: Nguutani					
Priority 1 (Drought)		Priority 2 Degradation)	(Environmental	Priority 3 (Hu	man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of mega earth dams	Nzawa Muthioni Nzauni Muivu Nzalae Nguutani Ngongoni	Rehabilitation of degraded lands	Nzawa Muthioni Nzauni Muivu Nzalae Nguutani Ngongoni	Create awarenes s on health and sanitation	Nzawa Muthioni Nzauni Muivu Nzalae Nguutani Ngongoni
Extension of pipeline water supply	Kangu pipeline to other villages	Community sensitization and awareness	Nzawa Muthioni Nzauni Muivu Nzalae Nguutani Ngongoni	Equippin g existing health facilities, constructi ng new health facilities	Nzawa Muthioni Nzauni Muivu Nzalae Nguutani Ngongoni

Establish a water	Nzawa		
purifying plant	Muthioni		
	Nzauni		
	Muivu		
	Nzalae		
	Nguutani		
	Ngongoni		
Construction of sand	Nzawa		
dams	Muthioni		
	Nzauni		
	Muivu		
	Nzalae		
	Nguutani		
	Ngongoni		
Rehabilitation of	Nzawa		
degraded sites through	Muthioni		
tree growing	Nzauni		
	Muivu		
	Nzalae		
	Nguutani		
	Ngongoni		
Establishment of tree	Nzawa		
nurseries at least 1 in	Muthioni		
each village	Nzauni		
	Muivu		
	Nzalae		
	Nguutani		

	Ngongoni					
Trainings and capacity	Nzawa					
building Climate	Muthioni					
Change planning teams	Nzauni					
	Muivu					
	Nzalae					
	Nguutani					
	Ngongoni					
Ward: MutoNguni						
Priority 1 (Drought)	1	Priority 2 Degradation)	,		man Diseases	
Action or Intervention	Where	Action or	Where	Action	Where	
required		Intervention		or		
		required		Interven		
				tion		
				required		
Construction of mega	Mithini	Rehabilitation	Mithini	Create	Mithini	
earth dams	MutoNgun	of degraded	MutoNguni	awarenes	MutoNguni	
	i	areas	Musengo	s on	Musengo	
	Musengo		Yalatani	health	Yalatani	
	Yalatani		Kakeani	and	Kakeani	
	Kakeani		Kangaondi	sanitation	Kangaondi	
	Kangaondi					
Extension of pipeline	Mithini	Community	Mithini	Equippin	Mithini	
water supply		sensitization	MutoNguni	g existing	MutoNguni	

	MutoNgun	and awareness	Musengo	health	Musengo
	i	creation on	Yalatani	facilities,	Yalatani
	Musengo	poaching and	Kakeani	constructi	Kakeani
	Yalatani	encroachment	Kangaondi	ng new	Kangaondi
	Kakeani		1141184101141	health	114418401141
	Kangaondi			facilities	
Establish a water	Mithini				
purifying plant	MutoNgun				
	li				
	Musengo				
	Yalatani				
	Kakeani				
	Kangaondi				
Construction of sand	Mithini				
dams	MutoNgun				
	i				
	Musengo				
	Yalatani				
	Kakeani				
	Kangaondi				
Rehabilitation of	Mithini				
degraded sites through	MutoNgun				
tree growing	i				
	Musengo				
	Yalatani				
	Kakeani				
	Kangaondi				

Establishment of tree	Mithini				
nurseries at least 1 in	MutoNgun				
each village	i				
	Musengo				
	Yalatani				
	Kakeani				
	Kangaondi				
Trainings and capacity	Mithini				
building Climate	MutoNgun				
Change planning teams	i				
	Musengo				
	Yalatani				
	Kakeani				
	Kangaondi				
Ward: Kyangwithya					
West					
Priority 1 (Drought)		Priority 2 Degradation)	(Environmental	Priority 3 (Hu	man Diseases
Action or Intervention	Where	<b>Action</b> or	Where	Action	Where
required		Intervention		or	
		required		Interven	
				tion	
				required	
Construction of mega	Kavuta	Rehabilitate	Kavuta	Create	Kavuta
earth dams	Ndumoni	degraded areas	Ndumoni	awarenes	Ndumoni
	Utooni		Utooni	s on	Utooni

	Itoleka Mulutu Tunguta		Itoleka Mulutu Tunguta	health and sanitation	Itoleka Mulutu Tunguta
Extension of pipeline water supply	Kavuta Ndumoni Utooni Itoleka Mulutu Tunguta	Community sensitization and awareness	Kavuta Ndumoni Utooni Itoleka Mulutu Tunguta	Equippin g existing health facilities, constructi ng new health facilities	Kavuta Ndumoni Utooni Itoleka Mulutu Tunguta
Establish a water purifying plant	Kavuta Ndumoni Utooni Itoleka Mulutu Tunguta				
Construction of sand dams	Kavuta Ndumoni Utooni Itoleka Mulutu Tunguta				

Priority 1 (Drought)		Priority Degradation	,	vironmental	Priority 3 (Human	Diseases
East						
Ward: Kyangwithya						
	Tunguta					
	Mulutu					
Change planning teams	Utooni Itoleka					
Trainings and capacity building Climate	Kavuta Ndumoni					
	Mulutu Tunguta					
	Itoleka					
nurseries at least 1 in each village	Ndumoni Utooni					
Establishment of tree	Kavuta					
	Tunguta					
	Itoleka Mulutu					
tree growing	Utooni					
Rehabilitation of degraded sites through	Kavuta Ndumoni					

Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of mega	Kalawa/ka	Rehabilitation	Kalawa/ka	Create	Kalawa/kabaa
earth dams	baa	of degraded	baa	awarenes	Museve
	Museve	areas	Museve	s on	Mutune
	Mutune		Mutune	health	Mulundi
	Mulundi		Mulundi	and	Misewani
	Misewani		Misewani	sanitation	Ivaini
	Ivaini		Ivaini		
Extension of pipeline	Kalawa/ka	Community	Kalawa/ka	Equippin	Kalawa/kabaa
water supply	baa	sensitization	baa	g existing	Museve
	Museve	and awareness	Museve	health	Mutune
	Mutune	creation	Mutune	facilities,	Mulundi
	Mulundi		Mulundi	constructi	Misewani
	Misewani		Misewani	ng new	Ivaini
	Ivaini		Ivaini	health	
				facilities	
Establish a water	Kalawa/ka				
purifying plant	baa				
	Museve				
	Mutune				
	Mulundi				
	Misewani				

	Ivaini		
Construction of sand dams	Kalawa/ka baa Museve Mutune Mulundi Misewani Ivaini		
Rehabilitation of degraded sites through tree growing	Kalawa/ka baa Museve Mutune Mulundi Misewani Ivaini		
Establishment of tree nurseries at least 1 in each village	Kalawa/ka baa Museve Mutune Mulundi Misewani Ivaini		

Trainings and capacity building Climate Change planning teams	Kalawa/ka baa Museve Mutune Mulundi Misewani Ivaini				
Ward: Kithumula Kwa Mutonga					
Priority 1 (Drought)		Priority 2 Degradation)	(Environmental	Priority 3 (Hu	man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of mega earth dams	Kwa mulungu Mutonga Kithumula Kasaini Mithikwan i	Rehabilitation of degraded areas	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani	Create awarenes s on health and sanitation	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani

Extension of pipeline water supply	Kwa mulungu Mutonga Kithumula Kasaini	Community sensitization and awareness creation on poaching and	Kwa mulungu Mutonga Kithumula Kasaini	Equippin g existing health facilities, constructi	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani
	Mithikwan i	encroachment	Mithikwani	ng new health facilities	
Establish a water purifying plant	Kwa mulungu Mutonga Kithumula Kasaini Mithikwan i				
Construction of sand dams	Kwa mulungu Mutonga Kithumula Kasaini Mithikwan i				
Rehabilitation of degraded sites through tree growing	Kwa mulungu Mutonga				

	Kithumula Kasaini Mithikwan i				
Establishment of tree nurseries at least 1 in each village	Kwa mulungu Mutonga Kithumula Kasaini Mithikwan i				
Trainings and capacity building Climate Change planning teams	Kwa mulungu Mutonga Kithumula Kasaini Mithikwan i				
Construction of mega earth dams	Kwa mulungu Mutonga Kithumula Kasaini	Improve response to human-wildlife conflict reports	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani	Create awarenes s on health and sanitation	Kwa mulungu Mutonga Kithumula Kasaini Mithikwani

Ward: Mutomo	Mithikwan i				
Priority 1 (Drought)	I	Priority 2 Degradation)	(Environmental	Priority 3 (Hu	man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of mega earth dams	Mwala Kandae Kibwea Kawelu Uae Kitoo	Rehabilitation of degraded lands	Mwala Kandae Kibwea Kawelu Uae Kitoo	Create awarenes s on health and sanitation	Mwala Kandae Kibwea Kawelu Uae Kitoo
Extension of pipeline water supply	Mwala Kandae Kibwea Kawelu Uae Kitoo	Community sensitization and awareness creation on poaching and encroachment	Mwala Kandae Kibwea Kawelu Uae Kitoo	Equippin g existing health facilities, constructi ng new health facilities	Mwala Kandae Kibwea Kawelu Uae Kitoo

Establish a water	Mwala		
purifying plant	Kandae		
	Kibwea		
	Kawelu		
	Uae		
	Kitoo		
Construction of sand	Mwala		
dams	Kandae		
	Kibwea		
	Kawelu		
	Uae		
	Kitoo		
Rehabilitation of	Mwala		
degraded sites through	Kandae		
tree growing	Kibwea		
	Kawelu		
	Uae		
	Kitoo		
Establishment of tree	Mwala		
nurseries at least 1 in	Kandae		
each village	Kibwea		
	Kawelu		
	Uae		
	Kitoo		
Trainings and capacity	Mwala		
building Climate	Kandae		
Change planning teams	Kibwea		

	Kawelu					
	Uae					
	Kitoo					
Construction of mega	Mwala	Improve	Mwala	Create	Mwala	
earth dams	Kandae	response to	Kandae	awarenes	Kandae	
	Kibwea	human-	Kibwea	s on	Kibwea	
	Kawelu	wildlife	Kawelu	health	Kawelu	
	Uae	conflict reports	Uae	and	Uae	
	Kitoo	_	Kitoo	sanitation	Kitoo	
Extension of pipeline	Mwala	Community	Mwala	Equippin	Mwala	
water supply	Kandae	sensitization	Kandae	g existing	Kandae	
	Kibwea	and awareness	Kibwea	health	Kibwea	
	Kawelu	creation on	Kawelu	facilities,	Kawelu	
	Uae	poaching and	Uae	constructi	Uae	
	Kitoo	encroachment	Kitoo	ng new	Kitoo	
				health		
				facilities		
Ward: Mbitini						
Priority 1 (Drought)		Priority 2 Degradation)	(Environmental	Priority 3 (Hu	man Diseases	
Action or Intervention	Where	Action or	Where	Action	Where	
required		Intervention		or		
		required		Interven		
				tion		
				required		

Construction of mega	Mwala	Rehabilitate	Mwala	Create	Mwala
earth dams	Kandae	degraded areas	Kandae	awarenes	Kandae
	Kibwea		Kibwea	s on	Kibwea
	Kawelu		Kawelu	health	Kawelu
	Uae		Uae	and	Uae
	Kitoo		Kitoo	sanitation	Kitoo
Extension of pipeline	Mwala	Community	Mwala	Equippin	Mwala
water supply	Kandae	sensitization	Kandae	g existing	Kandae
	Kibwea	and awareness	Kibwea	health	Kibwea
	Kawelu	creation on	Kawelu	facilities,	Kawelu
	Uae	poaching and	Uae	constructi	Uae
	Kitoo	encroachment	Kitoo	ng new	Kitoo
				health	
				facilities	
Establish a water	Mwala				
purifying plant	Kandae				
	Kibwea				
	Kawelu				
	Uae				
	Kitoo				
Construction of sand	Mwala				
dams	Kandae				
	Kibwea				
	Kawelu				
	Uae				
	Kitoo				

Rehabilitation of	Mwala				
degraded sites through	Kandae				
tree growing	Kibwea				
	Kawelu				
	Uae				
	Kitoo				
Establishment of tree	Mwala				
nurseries at least 1 in	Kandae				
each village	Kibwea				
	Kawelu				
	Uae				
	Kitoo				
Trainings and capacity	Mwala				
building Climate	Kandae				
Change planning teams	Kibwea				
	Kawelu				
	Uae				
	Kitoo				
Ward: Nzambani					
Priority 1 (Drought)		Priority 2 (Degradation)	Environmental	Priority 3 (Hu	man Diseases
Action or Intervention	Where	Action or	Where	Action	Where
required		Intervention		or	
		required		Interven	

				tion	
Construction of mega earth dams	Kavalula Kilonzo Ikuyuni Kyanika Kangweni	Rehabilitation of degraded areas	Kavalula Kilonzo Ikuyuni Kyanika Kangweni	required Create awarenes s on health and sanitation	Kavalula Kilonzo Ikuyuni Kyanika Kangweni
Extension of pipeline water supply	Kavalula Kilonzo Ikuyuni Kyanika Kangweni	Community sensitization and awareness creation on poaching and encroachment	Kavalula Kilonzo Ikuyuni Kyanika Kangweni	Equippin g existing health facilities, constructi ng new health facilities	Kavalula Kilonzo Ikuyuni Kyanika Kangweni
Establish a water purifying plant	Kavalula Kilonzo Ikuyuni Kyanika Kangweni				
Construction of sand dams	Kavalula Kilonzo Ikuyuni Kyanika Kangweni				

Rehabilitation of degraded sites through tree growing	Kavalula Kilonzo Ikuyuni Kyanika Kangweni				
Establishment of tree nurseries at least 1 in each village	Kavalula Kilonzo Ikuyuni Kyanika Kangweni				
Trainings and capacity building Climate Change planning teams	Kavalula Kilonzo Ikuyuni Kyanika Kangweni				
Ward: Mulango					
Priority 1 (Drought)		Priority 2 ( Degradation)	Environmental	Priority 3 (Hu	man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven	Where

				tion	
				required	
Construction of mega	Wii	Rehabilitation	Wii	Create	Wii
earth dams	Kwamuli	of degraded	Kwamuli	awarenes	Kwamuli
	Wikililye	areas	Wikililye	s on	Wikililye
	Kyangunga		Kyangunga	health	Kyangunga
	Kathungi		Kathungi	and	Kathungi
	Kyambiti		Kyambiti	sanitation	Kyambiti
	Katulani		Katulani		Katulani
Extension of pipeline	Wii	Community	Wii	Equippin	Wii
water supply	Kwamuli	sensitization	Kwamuli	g existing	Kwamuli
	Wikililye	and awareness	Wikililye	health	Wikililye
	Kyangunga	creation	Kyangunga	facilities,	Kyangunga
	Kathungi		Kathungi	constructi	Kathungi
	Kyambiti		Kyambiti	ng new	Kyambiti
	Katulani		Katulani	health	Katulani
				facilities	
Establish a water	Wii				
purifying plant	Kwamuli				
	Wikililye				
	Kyangunga				
	Kathungi				
	Kyambiti				
	Katulani				
Construction of sand	Wii				
dams	Kwamuli				
	Wikililye				

	Kyangunga Kathungi Kyambiti Katulani				
Rehabilitation of degraded sites through tree growing	Wii Kwamuli Wikililye Kyangunga Kathungi Kyambiti Katulani				
Ward: Tseikuru					
Priority 1 (Drought)		Priority 2 (Environmental Degradation)		Priority 3 (Human Diseases	
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of mega earth dams	Kaivirya Kaningo Katumbi Masyungw a Musavani	Improve response to human-wildlife conflict reports	Musavani, Kaningo, Katumbi, Mulangoni, Masyungwa	Create awarenes s on health and sanitation	Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange

	Ngalange				Tseiukuru
	Tseiukuru				mulangoni
	mulangoni				
Extension of pipeline	Kaivirya	Community	Kaivirya	Equippin	Kaivirya
water supply	Kaningo	sensitization	Kaningo	g existing	Kaningo
	Katumbi	and awareness	Katumbi	health	Katumbi
	Masyungw	creation on	Masyungw	facilities,	Masyungwa
	a	poaching and	a	constructi	Musavani
	Musavani	encroachment	Musavani	ng new	Ngalange
	Ngalange		Ngalange	health	Tseiukuru
	Tseiukuru		Tseiukuru	facilities	mulangoni
	mulangoni		mulangoni		
Establish a water	Kaivirya				
purifying plant	Kaningo				
	Katumbi				
	Masyungw				
	a				
	Musavani				
	Ngalange				
	Tseiukuru				
	mulangoni				
Construction of sand	Kaivirya				
dams	Kaningo				
	Katumbi				
	Masyungw				
	a				
	Musavani				

	Ngalange		
	Tseiukuru		
	mulangoni		
Rehabilitation of	Kaivirya		
degraded sites through	Kaningo		
tree growing	Katumbi		
lice growing	Masyungw		
	a Musavani		
	Ngalange		
	Tseiukuru		
Establishment of tree	mulangoni		
	Kaivirya		
nurseries at least 1 in	Kaningo		
each village	Katumbi		
	Masyungw		
	a		
	Musavani		
	Ngalange		
	Tseiukuru		
	mulangoni		
Trainings and capacity	Kaivirya		
building Climate	Kaningo		
Change planning teams	Katumbi		
	Masyungw		
	a		
	Musavani		

	Ngalange Tseiukuru mulangoni				
Construction of mega earth dams	Kaivirya Kaningo Katumbi Masyungw a Musavani Ngalange Tseiukuru mulangoni	Improve response to human-wildlife conflict reports	Kisiio, Lower Kituti, Mwambani, Katilini, Kilawa	Create awarenes s on health and sanitation	Kaivirya Kaningo Katumbi Masyungwa Musavani Ngalange Tseiukuru mulangoni
Ward: Kivou					
Priority 1 (Drought)	1	Priority 2 Degradation)	•		man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of mega earth dams	Kivou Kisana Ithumbi Kyanika kanzui	Rehabilitation of degraded areas	Kivou Kisana Ithumbi Kyanika kanzui	Create awarenes s on health	Kivou Kisana Ithumbi Kyanika kanzui

Extension of pipeline water supply	Kivou Kisana Ithumbi Kyanika kanzui	Community sensitization and awareness creation	Kivou Kisana Ithumbi Kyanika kanzui	and sanitation  Equippin g existing health facilities, constructi ng new health facilities	Kivou Kisana Ithumbi Kyanika kanzui
Establish a water purifying plant	Kivou Kisana Ithumbi Kyanika kanzui			racinics	
Construction of sand dams	Kivou Kisana Ithumbi Kyanika kanzui				
Rehabilitation of degraded sites through tree growing	Kivou Kisana Ithumbi Kyanika kanzui				

Establishment of tree	Kivou				
nurseries at least 1 in	Kisana				
each village	Ithumbi				
	Kyanika				
	kanzui				
Trainings and capacity	Kivou				
building Climate	Kisana				
Change planning teams	Ithumbi				
	Kyanika				
	kanzui				
Ward: Miambani					
Priority 1 (Drought)	•	Priority 2 (Environmental Pr Degradation)		Priority 3 (Hui	nan Diseases
<b>Action or Intervention</b>	Where	Action or	Where	Action	Where
required		Intervention		or	
•		required		Interven	
		•		tion	
				required	
Construction of mega	Nzaaya	Rehabilitation	Nzaaya	Create	Nzaaya
earth dams	Kanzau	of degraded	Kanzau	awarenes	Kanzau
	Kavalo	areas	Kavalo	s on	Kavalo
	Mutual		Mutual	health	Mutual
	Mung'ang'		Mung'ang'	and	Mung'ang'a
	a		a	sanitation	Kamandio
	Kamandio		Kamandio		

Extension of pipeline	Nzaaya	Community	Nzaaya	Equippin	Nzaaya
water supply	Kanzau	sensitization	Kanzau	g existing	Kanzau
	Kavalo	and awareness	Kavalo	health	Kavalo
	Mutual	creation	Mutual	facilities,	Mutual
	Mung'ang'		Mung'ang'	constructi	Mung'ang'a
	a		a	ng new	Kamandio
	Kamandio		Kamandio	health	
				facilities	
Establish a water	Nzaaya				
purifying plant	Kanzau				
	Kavalo				
	Mutual				
	Mung'ang'				
	a				
	Kamandio				
Construction of sand	Nzaaya				
dams	Kanzau				
	Kavalo				
	Mutual				
	Mung'ang'				
	a				
	Kamandio				
Rehabilitation of	Nzaaya				
degraded sites through	Kanzau				
tree growing	Kavalo				
	Mutual				

Establishment of tree	Mung'ang' a Kamandio				
nurseries at least 1 in each village	Nzaaya Kanzau Kavalo Mutual Mung'ang' a Kamandio				
Ward: Endau Priority 1 (Drought)		Priority 2 (Human-	Human/human-	Priority 3 (Hu	man Diseases
Action or Intervention required	Where	wildlife conflicts) Action or Intervention required	Where	Action or Interven tion required	Where
Construction of mega earth dams	Twambu, Makuka,	Improve response to	Twambu, Makuka, Katumbi,	Create awarenes	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku,

Extension of pipeline	Twambu,	human-wildlife conflict reports  Community	Kathua, Yiuku, Malalani Twambu,	Equippin	Twambu, Makuka,
water supply	Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani	sensitization and awareness creation on poaching and encroachment	Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani	g existing health facilities, constructi ng new health facilities	Katumbi, Ndetani Kathua, Yiuku, Malalani
Establish a water purifying plant	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani				
Construction of sand dams	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani				

Rehabilitation of degraded sites through tree growing	Twambu, Makuka, Katumbi, Ndetani Kathua, Yiuku, Malalani				
Ward: Mwingi Central		Priority 2	(Engineery out al	Dui a vitu 2 (II.)	man Disagge
Priority 1 (Drought)		Priority 2 Degradation)	(Environmental	Priority 3 (Hu	man Diseases
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Construction of earth dams, sand dams, and rock catchment	Mathyakan i Mulanga Kanzanzu Kalisasi	Establish solid waste reuse and recycle systems	Central	Construct new health facilities across the ward	Mathyakani Mulanga Kanzanzu Kalisasi
Promote CSA	Mathyakan i Mulanga Kanzanzu	Develop waste disposal regulatory framework	Mwingi Municipalit y	Increase the number of	Mathyakani Mulanga Kanzanzu Kalisasi

	Kalisasi Central			communi ty health	Central
				promoter	
				S	
Trainings and capacity	Mathyakan	Awareness and	Mathyakan	Equip	Central
building farmers –	i	sensitization	i	mwingi	
5,000 farmers across the	Mulanga	on	Mulanga	level 4	
ward	Kanzanzu	environmental	Kanzanzu	hospital	
	Kalisasi	protection	Kalisasi		
	Central	across the ward	Central		
		Develop a	Mwingi	Sensitizat	Mathyakani
		sewerage	Municipalit	ion on	Mulanga
		system	y (Central	health	Kanzanzu
			village)	and	Kalisasi
				nutrition	Central
				across the	
				ward	
Increase the number of	Mathyakan				
agriculture extension	i				
officers by 1 per village	Mulanga				
	Kanzanzu				
	Kalisasi				
	Central				
Promote sustainable	Mathyakan				
livestock keeping	i				
	Mulanga				
	Kanzanzu				

Ward: Kitui	Kalisasi Central				
Township					
<b>Priority 1 (Poor Waste Disp</b>	osal)	Priority 2 (Water Po	ollution)	Priority 3 (Air	Pollution)
Action or Intervention required	Where	Action or Intervention required	Where	Action or Interven tion required	Where
Designate a new and appropriate solid waste dumping site	Outside the busy kalundu market	Construction of proper drainage and sewerage system	Kaveta Town Majengo Ngiini Kalundu	Develop air pollution control regulator y framewor k	Kitui municipality
Sorting solid waste at the source points (residential and commercial areas)	Kaveta Town Majengo Ngiini Kalundu	Install a water treatment plant	Kaveta Town Majengo Ngiini Kalundu	Train and sensitize institutio ns on air pollution control	Kitui municipality
Conduct public awareness and	Kaveta Town	Construction of a new and	Kaveta Town		

sensitization of proper	Majengo	suitable solid	Majengo	
waste disposal	Ngiini	waste dumping	Ngiini	
	Kalundu	site	Kalundu	
Formulation of waste	Kitui	Construct soil	Kaveta	
management policies	municipalit	conservation	Town	
and regulatory	у	structures	Majengo	
framework			Ngiini	
			Kalundu	
Develop regulatory	Kitui	Formulate	Kitui	
framework for Kitui	Municipali	water pollution	municipalit	
County Waste	ty	control	у	
Management		regulatory		
		framework		
Establish a solid waste	Town			
recycling plant	Majengo			
	Kalundu			
Mobilize organized	Town			
youth groups to develop	Majengo			
solid waste recycling	Kalundu			
proposals				

#### 6. CONCLUSION AND RECOMMENDATIONS

The County Government of Kitui fully supports Kenya's dedicated adaptation ambition by committing to bridging the implementation gaps by: enhancing the adaptive capacity and climate resilience across all the sectors of the economy while exploring innovative and sustainable livelihood strategies for enhancing climate resilience of local communities through supporting locally led Climate Change actions. Considering that the country's GDP relies on climate sensitive sectors such as agriculture, tourism, industry and manufacturing. County Government of Kitui has put in place various policies and legal framework, Various institutions and systems have also been instituted and established. Moving forward more resources shall be devoted in supporting and strengthening these structures and systems. County Government of Kitui shall continue sharing information and learning from other counties on the best practices for effective knowledge management and upscaling of the initiated interventions. County Government of Kitui shall continue allocating resource annually to support community adaptation actions in the County.

Adaptation is thus the highest priority for the County, not only through preventing further losses and damage, but underpinning infrastructure and economic

development, while safeguarding lives, livelihoods, and social development in line with Kitui County Integrated Development Plan (CIDP) and Kenya Vision 2030.

Enhanced risk-based approach to Climate Change adaptation at the County level through development and application of comprehensive climate risk management tools as outlined above would help in addressing and adaptively managing climate risks; addressing residual Climate Change impacts, loss and damage especially in the productive sectors of the economy; enhance generation, packaging and widespread uptake and use of climate information in decision making and planning across sectors and counties with robust early warning systems (EM/S); Enhance uptake of adaptation technology especially of women, youth and other vulnerable groups, incorporating scientific and indigenous knowledge; Institutional strengthening of the County Climate Change oversight, planning and implementation structures and community organizations; and Strengthening tools for adaptation monitoring, evaluation and learning (MEL) at the County level.

To achieve the above, the County Government of Kitui intends to develop the Kitui County Climate Change action plan. This will be the guiding tool to implement various priority actions, to attain the Triple Adaptation Dividend namely, avoid environmental damages and losses; Maximize on economic benefits; social and environmental

benefits. These interventions will result into building the climate resilience of the Kitui County communities.

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Annex 1 Sector Working Technical group Nomination

#### **COUNTY GOVERNMENT OF KITUI**

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### MINISTRY OF ENERGY, ENVIRONMENT, CLIMATE CHANGE, FORESTRY, NATURAL AND MINERAL RESOURCES

Ref No. CGKTI/MEECCFNMR/ENV/4/71

27th April, 2023

TO:

FROM: Chief Officer

Environment, Climate Change and Forestry

RE: NOTIFICATION FOR YOUR NOMINATION TO PARTICIPATE IN WARD LEVEL PARTICIPATORY CLIMATE RISK ASSESSMENT EXERCISE

The Government of Kenya's Financing Locally-Led Climate Action (G-FLLoCA) program is one of the transformative actions taken by the Kenyan Government to reduce community-level vulnerability and build resilience to climate change impacts. The program is being implemented by the National Treasury and Planning in collaboration with County Governments and their line departments, with financial support from the World Bank, DANIDA, SIDA, World Food Program among others.

The overall goal of the program is to strengthen local communities' resilience to the impacts of climate change, natural hazards, and other shocks and stressors by building local capacity to plan, budget, implement, monitor and report resilience investments in a way that promotes collaborative partnership between communities, national and county governments. As one of the requirements in readiness for climate resilience investment support, the County Government of Kitui, through the Department of Environment, Climate Change and Forestry, is in the process of conducting a county Participatory Climate Risk Assessment (PCRA) and County Climate Change Action Plan (CCCAP).

Following your participation in the PCRA Training Workshop held on 19<sup>th</sup> to 21<sup>st</sup> of April, 2023 in Mutomo Town, Kitui South Sub County, Kitui County, you are hereby nominated to participate in PCRA Ward Level workshops scheduled between **02<sup>nd</sup> May, 2023 and 12<sup>th</sup> May, 2023**. See the attached list and program for your information thereof.

Thank you for your continued support.

David sor Masai Chief Office

Chief Officer - Environment, Climate Change and Forestry

✓ CECM – Ministry of Energy, Environment, Climate Change, Forestry, Natural and Mineral Resources Annex 2: Participants invitation for PCRA Training Workshop

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## **COUNTY GOVERNMENT OF KITUI**

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# MINISTRY OF ENERGY, ENVIRONMENT, CLIMATE CHANGE, FORESTRY, NATURAL AND MINERAL RESOURCES KITUI COUNTY CLIMATE CHANGE UNIT (KCCCU)

14th April, 2023

Ref. No. CGKTI/MEECCFNMR/ENV/4/55

Dear

INVITATION FOR PARTICIPATORY CLIMATE RISK ASSESSMENT (PCRA) TRAINING WORKSHOP SCHEDULED TO BE HELD AT CAPITAL INN, MUTOMO TOWN BETWEEN 19<sup>TH</sup> – 21<sup>ST</sup> APRIL, 2023

County Government of Kitui is in the process of developing Kitui County Climate Change Action Plan (KCCCAP) through Participatory Climate Risk Assessment (PCRA) approach. KCCCAP is being prepared through extensive consultative processes involving key players and stakeholders in all county's 40 wards. KCCCAP will be integrated together with similar plans from other 46 counties to develop National Climate Change Action Plan (NCCAP). Climate Change Action Plans both at National and County Government level play a catalytic role that enable Governments to deliver climate action results through appropriately structured interventions by responding to existing



Annex 3: List of data collection teams

TEAM	WARDS	OFFICERS	CONTACT	ROLE
Team 1	Tseikuru	Damaris Musyoka	0727446761	Team Leader/Facilitator
	Kivou	Justus Loki	0748627300	Note Taker
	Nuu	Doris Kanini	0720602705	Facilitator
Team 2	Mui	Wilson Oduor	0721492676	Team Leader/Facilitator
	Nguutani	Faith Moki	0729876992	Note Taker
	MutoNguni	Joy Mutanu James	0707975171	Facilitator
Team 3	Kyangwithya West	Titus Muvea	0728096183	Team Leader/Facilitator
	Kyangwithya East	Winfred Paul	0721293668	Note Taker
	Kwa Mutonga Kithumula	Paul Musili	0704040754	Facilitator
Team 4	Athi	Kelvin Kitonga	0711175484	Team Leader/Facilitator
	Kanziko	Hellen Muli	0713270969	Facilitator
	Mutomo/Kibweya	Dr. John Nyamai	0721413195	Facilitator
Team 5	Mbitini	Nicodemus Mwanzia	0723659311	Team Leader/Facilitator
	Kisasi	Evelyne Kitavi	0723324505	Note Taker
	Nzambani	Eng. Ann Mutie	0711401284	Facilitator
Team 6	Mulango	Lilian Musili	0712008613	Team Leader/Facilitator
	Miambani	Miriam Muli	0726834669	Note Taker
	Endau/Malalani	Margret Mawia	0711404818	Facilitator
Team 7	Kitui Central (Urban resilience context)	Jacinta Museo	0757334354	Team Leader/Facilitator
	Mwingi Central (Urban resilience context)	Sam Mwendwa	0722491545	Facilitator
	Voo Kyamatu	Jackson Mwendwa	0726755466	Facilitator/Note Taker

	Marian John	0719373433	Note Taker	ı

TEAM	WARDS	OFFICERS	CONTACT	ROLE
Team 8	Tharaka	Oras Murithi	726967094	Team Leader/Facilitator
	Mumoni	Tabitha Mweu	724945561	Facilitator
	Kyuso	Daniel Mbithi	715255171	Note Taker
Team 9	Ngomeni	Cosmus Mwanzia	729680663	Team Leader/Facilitator
	Nguni	Alex Muthyoi	724334403	Facilitator
	Waita	Diana Mugo	723205357	Note Taker
Team 10	Kiomo Kyethani	Dominic Mumbu	724445406	Team Leader/Facilitator
	Kyome Thaana	Catherine Wamaitha	7111669652	Note Taker
	Migwani	Roy Aseka	722832432	Facilitator
Team 11	Kauwi	Paul Katheka	706532199	Facilitator
	Matinyani	Charles Kitonga	724175426	Facilitator
	Kwa Vonza	Stanley Marioko	723856810	Note Taker
Team 12	Chuluni	Damaris Musyoka	0727446761	Team Leader/Facilitator
	Zombe/Mwitika	Justus Loki	0748627300	Note Taker
	Mutito Kaliku	Doris Kanini	0720602705	Facilitator
Team 13	Ikanga/Kyatune Kyatune	Jacinta Museo	0757334354	Team Leader/Facilitator
	Ikutha Kasala	Sam Mwendwa	0722491545	Facilitator
	Mutha	Jackson Mwendwa	0726755466	Facilitator/Note Taker
	Kanyangi	Marian John	0719373433	Note Taker

Annex 4: List of ward PCRA process participants

#### Mutomo Ward

S/N	NAME	ID	Mobile	GEN	IDER	AGE	
				М	F	Below 35	Above 35
1.	Fredrick wambua	23584215	0714362593	/			/
2.	Muluka Meshack	13783213	0723831299	/			/
3.	Kibwea mwendwa	27002639	0740714588	/			/
4.	Erickson mooki	11276785	0711954469	/			/
5.	Stephen mungami	25994552	0726347068	/		/	
6.	Rose kavutha	22118901	0727906164		/		/
7.	Lena kula	26687632	0707339399		/		/
8.	Benjamin kinyangu	24281555	0711239415	/			/
9.	Rachel mutisya	26415358	0726992189		/	/	
10.	Benson lucas	22717717	0700221584	/			/
11.	Philip mutaki	52607542	0726967524	/			/
12.	Leonard syengo	3355293	0722513529	/			
13.	Penina kula	4640098	0701874215		/		/
14.	Reuben kinyangu	1110388	0714269504	/			/
15.	Felistus mwende	28278901	0713901553		/	/	
16.	Augustus ndaka	29170205	0702610775	/		/	
17.	Juduth musango	34609215	0742006165		/	/	
18.	Zaituny nzomo	12961305	0798047444		/		/
19.	Patricia K musau	13595452	0725085763		/		/
20.	Elizabeth musyoki	20039274	0716461112		/		/
21.	Cosmas mutia	10878796	0759147584	/			/
22.	Philip kituku	1103223	0711880548	/			
23.	Kinyamasyo ngui	32710055	0700040483	/		/	
24.	Benson mutisya	9147584	0715641745	/			/
25.	Augustus musyoka	28577773	0718642936	/		/	

26.	Sam Mwendwa	26102500	0722491845	/	/	
27.	Jackson Mwendwa	27348084	0726755466	/	/	
28.	Marian John					

#### Kanziko Ward

#### PCRA Workshop Participants

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1.	Fredrick wambua	23584215	0714362593	/			/
2.	Muluka Meshack	13783213	0723831299	/			/
3.	Kibwea mwendwa	27002639	0740714588	/			/
4.	Erickson mooki	11276785	0711954469	/			/
5.	Stephen mungami	25994552	0726347068	/		/	
6.	Rose kavutha	22118901	0727906164		/		/
7.	Lena kula	26687632	0707339399		/		/
8.	Benjamin kinyangu	24281555	0711239415	/			/
9.	Rachel mutisya	26415358	0726992189		/	/	
10.	Benson lucas	22717717	0700221584	/			/
11.	Philip mutaki	52607542	0726967524	/			/
12.	Leonard syengo	3355293	0722513529	/			
13.	Penina kula	4640098	0701874215		/		/
14.	Reuben kinyangu	1110388	0714269504	/			/
15.	Felistus mwende	28278901	0713901553		/	/	
16.	Augustus ndaka	29170205	0702610775	/		/	
17.	Juduth musango	34609215	0742006165		/	/	
18.	Zaituny nzomo	12961305	0798047444		/		/
19.	Patricia K musau	13595452	0725085763		/		/
20.	Elizabeth musyoki	20039274	0716461112		/		/
21.	Cosmas mutia	10878796	0759147584	/			/
22.	Philip kituku	1103223	0711880548	/			
23.	Kinyamasyo ngui	32710055	0700040483	/		/	
24.	Benson mutisya	9147584	0715641745	/			/
25.	Augustus musyoka	28577773	0718642936	/		/	
26.	Sam Mwendwa	26102500	0722491845	/		/	
27.	Jackson Mwendwa	27348084	0726755466	/		/	
28.	Marian John						

#### Athi Ward

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35

1.	Fredrick wambua	23584215	0714362593	/			/
2.	Muluka Meshack	13783213	0723831299	/			/
3.	Kibwea mwendwa	27002639	0740714588	/			/
4.	Erickson mooki	11276785	0711954469	/			/
5.	Stephen mungami	25994552	0726347068	/		/	
6.	Rose kavutha	22118901	0727906164		/		/
7.	Lena kula	26687632	0707339399		/		/
8.	Benjamin kinyangu	24281555	0711239415	/			/
9.	Rachel mutisya	26415358	0726992189		/	/	
10.	Benson lucas	22717717	0700221584	/			/
11.	Philip mutaki	52607542	0726967524	/			/
12.	Leonard syengo	3355293	0722513529	/			
13.	Penina kula	4640098	0701874215		/		/
14.	Reuben kinyangu	1110388	0714269504	/			/
15.	Felistus mwende	28278901	0713901553		/	/	
16.	Augustus ndaka	29170205	0702610775	/		/	
17.	Juduth musango	34609215	0742006165		/	/	
18.	Zaituny nzomo	12961305	0798047444		/		/
19.	Patricia K musau	13595452	0725085763		/		/
20.	Elizabeth musyoki	20039274	0716461112		/		/
21.	Cosmas mutia	10878796	0759147584	/			/
22.	Philip kituku	1103223	0711880548	/			
23.	Kinyamasyo ngui	32710055	0700040483	/		/	
24.	Benson mutisya	9147584	0715641745	/			/
25.	Augustus musyoka	28577773	0718642936	/		/	
26.	Sam Mwendwa	26102500	0722491845	/		/	
27.	Jackson Mwendwa	27348084	0726755466	/		/	
28.	Marian John						

#### Athi Ward

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1.	Fredrick wambua	23584215	0714362593	/			/
2.	Muluka Meshack	13783213	0723831299	/			/
3.	Kibwea mwendwa	27002639	0740714588	/			/
4.	Erickson mooki	11276785	0711954469	/			/
5.	Stephen mungami	25994552	0726347068	/		/	
6.	Rose kavutha	22118901	0727906164		/		/
7.	Lena kula	26687632	0707339399		/		/
8.	Benjamin kinyangu	24281555	0711239415	/			/
9.	Rachel mutisya	26415358	0726992189		/	/	
10.	Benson lucas	22717717	0700221584	/			/

					,		
11.	Philip mutaki	52607542	0726967524	/			/
12.	Leonard syengo	3355293	0722513529	/			
13.	Penina kula	4640098	0701874215		/		/
14.	Reuben kinyangu	1110388	0714269504	/			/
15.	Felistus mwende	28278901	0713901553		/	/	
16.	Augustus ndaka	29170205	0702610775	/		/	
17.	Juduth musango	34609215	0742006165		/	/	
18.	Zaituny nzomo	12961305	0798047444		/		/
19.	Patricia K musau	13595452	0725085763		/		/
20.	Elizabeth musyoki	20039274	0716461112		/		/
21.	Cosmas mutia	10878796	0759147584	/			/
22.	Philip kituku	1103223	0711880548	/			
23.	Kinyamasyo ngui	32710055	0700040483	/		/	
24.	Benson mutisya	9147584	0715641745	/			/
25.	Augustus musyoka	28577773	0718642936	/		/	
26.	Sam Mwendwa	26102500	0722491845	/		/	
27.	Jackson Mwendwa	27348084	0726755466	/		/	
28.	Marian John						

#### Kivou Ward

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1.	Fredrick wambua	23584215	0714362593	/			/
2.	Muluka Meshack	13783213	0723831299	/			/
3.	Kibwea mwendwa	27002639	0740714588	/			/
4.	Erickson mooki	11276785	0711954469	/			/
5.	Stephen mungami	25994552	0726347068	/		/	
6.	Rose kavutha	22118901	0727906164		/		/
7.	Lena kula	26687632	0707339399		/		/
8.	Benjamin kinyangu	24281555	0711239415	/			/
9.	Rachel mutisya	26415358	0726992189		/	/	
10.	Benson lucas	22717717	0700221584	/			/
11.	Philip mutaki	52607542	0726967524	/			/
12.	Leonard syengo	3355293	0722513529	/			
13.	Penina kula	4640098	0701874215		/		/
14.	Reuben kinyangu	1110388	0714269504	/			/
15.	Felistus mwende	28278901	0713901553		/	/	
16.	Augustus ndaka	29170205	0702610775	/		/	
17.	Juduth musango	34609215	0742006165		/	/	
18.	Zaituny nzomo	12961305	0798047444		/		/
19.	Patricia K musau	13595452	0725085763		/		/
20.	Elizabeth musyoki	20039274	0716461112		/		/

21.	Cosmas mutia	10878796	0759147584	/		/
22.	Philip kituku	1103223	0711880548	/		
23.	Kinyamasyo ngui	32710055	0700040483	/	/	
24.	Benson mutisya	9147584	0715641745	/		/
25.	Augustus musyoka	28577773	0718642936	/	/	
26.	Sam Mwendwa	26102500	0722491845	/	/	
27.	Jackson Mwendwa	27348084	0726755466	/	/	
28.	Marian John					

#### Tseikuru Ward

S/N	NAME	ID	Mobile	GEN	IDER	AGE	
				М	F	Below 35	Above 35
1.	Fredrick wambua	23584215	0714362593	/			/
2.	Muluka Meshack	13783213	0723831299	/			/
3.	Kibwea mwendwa	27002639	0740714588	/			/
4.	Erickson mooki	11276785	0711954469	/			/
5.	Stephen mungami	25994552	0726347068	/		/	
6.	Rose kavutha	22118901	0727906164		/		/
7.	Lena kula	26687632	0707339399		/		/
8.	Benjamin kinyangu	24281555	0711239415	/			/
9.	Rachel mutisya	26415358	0726992189		/	/	
10.	Benson lucas	22717717	0700221584	/			/
11.	Philip mutaki	52607542	0726967524	/			/
12.	Leonard syengo	3355293	0722513529	/			
13.	Penina kula	4640098	0701874215		/		/
14.	Reuben kinyangu	1110388	0714269504	/			/
15.	Felistus mwende	28278901	0713901553		/	/	
16.	Augustus ndaka	29170205	0702610775	/		/	
17.	Juduth musango	34609215	0742006165		/	/	
18.	Zaituny nzomo	12961305	0798047444		/		/
19.	Patricia K musau	13595452	0725085763		/		/
20.	Elizabeth musyoki	20039274	0716461112		/		/
21.	Cosmas mutia	10878796	0759147584	/			/
22.	Philip kituku	1103223	0711880548	/			
23.	Kinyamasyo ngui	32710055	0700040483	/		/	
24.	Benson mutisya	9147584	0715641745	/			/
25.	Augustus musyoka	28577773	0718642936	/		/	
26.	Sam Mwendwa	26102500	0722491845	/		/	
27.	Jackson Mwendwa	27348084	0726755466	/		/	
28.	Marian John						

#### Mbitini Ward

#### **PCRA Workshop Participants**

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1.	Charles k masia	21406883	0722272425	\			\
2	Christine milinge	23590946	0727684169		\		\
3	David mutambi	24354555	0723375114	\			\
4	Nyamai nzukio	10354563	0727947568	\			\
5	Debora agnes	13234434	074863150		\		\
6	Stephen nzengula	13465664	0710666244	\		\	
7	Gladys kioko	11266858	0770523767		\		\
8	Mbai mwale	12347576	0712273191	\			\
9	Mwania mwolo	45354636	0700069818	\			\
10	Mwikali munyoka	8677624	0702401617		\		\
11	John matonyi	1003654	0754768465	\		\	
12	Rober tmutunga	12234556	0710563564	\		\	
13	Virginia kinyua	25050646	0746576667		\	\	
14	Felistus wambua	0574737	0711675758		\		\
15	Ngalia nguengo	35467537	0753564653		\		\
16	Benard waife	14354564	0724342342	\			\
17	Esther kavindu	25665676	0763564554		\	\	
18	Isaac kalungu	3665763	0754545659	\		\	
19	David munyaka	13425364	0752546672	\		\	
20	David matheka	4456576	0746656655	\			\
21	Peter mumo	15344756	0734567657	\			\
22	Phiilp matata	54124635	0713454455	\			\
23	Nzembi mutivo	45464567	0723564655		\		\
24	Jane mwangangi	1435455	0764565345		\		\
25	Miriam muli	14342435	0723543566		\		\
26	Margaret myamai	15363674	0725565666		\		\
27	Kelvin muthui	13545646	0752636566	\			\
28	Dominic mumbu	1534655	0723556457	\			\
29	Vexina mueni	13545564	0714325466		\		yes
30	vemako	20181397	0721328236	yes			yes
31	Moly hura	9445545	0721546646	yes			yes
32	Joyce moraa	36546557	0753545464		yes	yes	
33	Damaris musyoka	24465757	0755465666		yes	yes	

#### MutoNguni Ward

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35

1	Christine k	12236534	0724565345		\		\
2	cecilia kimanzi	12423545	0111345456		\		\
3	Rhodester muthui	45652665	0724354356		\		\
4	Muse muthengi	15445345	0714455435	\			\
5	Titus muthnya	12532545	0712543254	\			\
6	Joshua kiseu	1039485	0714245435	\			\
7	Joseph S N	3255452	0112353545	\		\	
8	Stella martha	13674675	0724354354		\	\	
9	Elizabeth patrick	13654565	0712546546		\	\	
10	Anna kyende	35464666	0752343455		\		\
11	Miriam ngangi	14325545	0741254555		\		\
12	Maria kimeu	23354635	0723546566		\		\
13	Mutua kitemu	23354665	0725445646	\			\
14	Justus m	31324545	0712455452	\		\	
15	Mbesa mutisya	0435445	0713235455		\	\	
16	alexander	42354656	0111244345	\		\	
17	Robert nzoka	13454561	0112337532	\			\
18	Mutual mali	3445666	0765321112	\			\
19	Onesmum itula	32454667	0774534242	\			\
20	Munyali nzomo	13355656	0725423546	\			\
21	Lydia kimanzi	10004565	0765985524		\	\	
22	Kavanga nganga	14646577	0756634554		\	\	
23	Musyoki kathumo	12434455	0734654564	\			\
24	Agneta munyoki	23142555	0765421344		\		\
25	James simba	24354646	0763423425	\			\
26	Kavata mutindi	3666637	0717227570		\		

#### **Mwingi central Ward**

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1.	Jonah naumi	23400382	0113684949	/			\
2.	Japheth Kitui	20255376	0112647324	\		\	
3.	Jeremiah muthui	7234170	0722737764	\			\
4.	Charles mulatya	0777519	0700303606	\		\	
5.	John mbai	0270905	0791359780	\			\
6.	Abdallah ngonga	6282695	0724799848	\		\	
7.	Muimi mulyungi	30536787	0703312090	\			\
8.	Kevin kimwea	27689493	0713152504	\			\
9.	Janet sammy	22936191	0728638663		\		\
10.	Mutua nutia	13444758	0794869057	\		\	
11.	John kimanzi	22223148	0727738485	\			\
12.	Samuel mwangangi	20010851	0711111274	\		\	

13.	Breta ngumbali	21047167	0729986120		\		\
14.	Magdaline mbuvi	23786689	0715136441		\	\	
15.	Caleb k ngei	33826818	0792961980	\			\
16.	Josphine kithingi	13811324	0726799770		\	\	
17.	Ngute muthui	23827480	0729379722	\			\
18.	Dorcus luka	12625923	0715513453		\	\	
19.	Samson michael	33351974	0722548790	\			\
20.	Virginia grace	21695073	0768534678		\	\	
21.	Anna ngui	10095091	0789653788		\		\
22.	Stephen kilonzi	0780021	0745726963	\			\
23.	Esther luka	10879010	0726361272		\	\	
24.	Martha sajja	34456768	0757554445		\		\
25.	Faith kitema	25655776	0746453634		\	\	
26.	Sam Muthamba	10567859	0764535655	\			\
27.	Jackson mwendwa	27348054	0726755466	\			\
28.	Marian john	29473425	0719707999		\		\
29.	Pennina sammy	39056475	0117548595		\		\

# Mui Ward PCRA Workshop Participants

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1	Janet muluu	12526465	0723545653		\	\	
2	Mbaluka nzamo	26465656	0723656868	\			\
3	John vumo	32656576	0753565677	\			\
4	Patrick ndambu	6465667	0763556867	\			\
5	Timothy mwinye	1232435	0773576877	\			\
6	Joshua mbuvi	24325465	0111234665	\			\
7	Mary mwendwa	32435465	0112434563		\		\
8	David maweu	12432546	0725365421	\			\
9	Petromila mumo	23234354	0735656154		\	\	
10	Nzoka mutaa	2114356	0712556456	\		\	
11	Josphine muse	24354657	0713215431		\	\	
12	James kilonzo	3243546	0763451432	\		\	
13	Joseph kimanzi	24354657	0763524123	\			\
14	Mutia muvengei	15340574	0754645252	\			\
15	Jackson kunu	12437546	0734645521	\			\
16	Fransis mutama	23421561	0745624522	\			\
17	Patricia kituku	3426577	0723554655		\		\
18	Martha muthika	10437354	0756452244		\	\	
19	Breta muthui	14354657	0723557236		\	\	
20	Julius mwania	23143467	0734645245	\			\
21	Benjamin kilonzi	12564654	0725346524	\		_	\

22	Kitonga mwola	34565754	0745235435	\			\
23	Fransica mulonza	13545653	0756234235		\	\	
24	Danstan kasalu	3413235	0735255254	\		\	
25	Felix masya	13454656	0735216453	\		\	
26	Mutie sanzivo	13245657	0732554745	\			\
27	Renson munene	4131535	0742564562	\			\
28	Erasus mutinda	15346554	0735658632	\			\
29	Chris mwendw	42545465	0734645623	\			\

#### Kisasi Ward

#### **PCRA Workshop Participants**

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1	Samuel mutie	8721146	0727816004	\		\	
2	Benard sivi	7147290	0722953654	\			\
3	Cosmos muithi	0272903	0722862640	\		\	
4	Jethro kitili	28079666	0700902239	\			\
5	Liske m musenyai	24362719	0723309924	\		\	
6	Mumbe mwei	14455525	0723707385		\		\
7	Luciana ikuthu	13444338	0706896965		\	\	
8	Faith mumo	25532912	0729997451		\		\
9	John mwanza	86891819	0722655987	\		\	
10	Partick nzembei	21524243	0725343848	\			\
11	Winfred mwanzia	11720273	0713515029		\		\
12	Josphine malingo	7439880	0715829585		\	\	
13	Dorcas nzomo	12719706	0712251985		\		\
14	Emma mwaniku	4572217	0710108008		\		\
15	Victoria mwkau	25856151	0713178113		\		\
16	Purity mboya	42260829	0794355873		\	\	
17	Titus ishui	1012611	0726164227	\		\	
18	Dominic mutinda	10878524	0724448083	\			\
19	Maluki mumo	8990747	0720983840	\			\
20	Joseph m mboka	10095351	0710779553	\			\
21	Josphat kithome	13781224	0724067388	\			\
22	Amos k martin	21822478	0722976732	\			\
23	Muse malii	11277607	0795641345	\		\	
24	Patrick kiema	7424010	0711846335	\		١	
25	James k kweta	35379213	070645781	\		_	\
26	Benson wambua	10206192	0714845842	\			\
27	Jackson ngala	34479276	0792286785	\			\

#### Nguutani Ward

#### **PCRA Workshop Participants**

S/N	NAME	ID	Mobile	GEN	IDER	AGE	
				М	F	Below 35	Above 35
1	Henderson	12453654	0764653444	\		\	
2	Patrick	45253674	0722544533	\			\
3	James kyalo	21345566	0724326456	\			\
4	Peter muimi	134324562	0724435545	\			\
5	Rose kalai	35454664	0715345554		\		\
6	Monica mutemi	25346465	0725465466		\	\	
7	Margaret mia	43256456	0735465525		\		\
8	John m kioko	5343165	0714354651	\			\
9	Pius kiu	12344367	0725354655	\			\
10	Roephine kiilu	45426465	0711556576		\	\	
11	Eunice kavovi	13354546	0715364656		\		\
12	Nicholus litwa	3425436	0756425645	\			\
13	Janet mbindyo	13344656	0726346456		\	\	
14	Nina malia	2241445	0111275456		\		\
15	Alex mulunga	345143	0723534645	\		\	
16	Felistus ithiku	2545465	0752355456		\		\
17	Dominic lius	14352656	0734556234	\			\
18	Mutei munywoki	13435456	0724565634		\	\	
19	Makaa ikilu	22314465	0723565656	\		\	
20	Julius nzomo	01143254	0762165756	\		١	
21	Paul mutinda	10002454	0723564556	\		\	
22	Mukula ndemwa	22223354	0763657346	\		\	
23							

#### Nzambani Ward

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1	Paul mutunga	20013275	0723065476	\		\	
2	Gladys musyoka	1135600	0745363758		\		\
3	Susan katusya	3610736	0764554667		\		\
4	Michael ndeto	12449566	0722223475	\		\	
5	Purity david	24048766	0766445557		\		\
6	Benedict m kilui	22129045	0746375757	\			\
7	Anna p david	15457736	0746575746		\		\
8	Pauline m nguu	22578474	0720665553		\		\
9	Nicholus kiauni	07475647	0720342636	\		\	
10	Christopher kimwele	8959587	0723904323	\		\	
11	Jane l	1020702	0746347448		\	\	

12	Mary mwalimu	25514156	0745362654		\	\	
13	Richard nzuki	1224354	0743323434	\			\
14	Alex john	23451335	0732323433	\			\
15	musevemu	25555243	0723144523	\			\
16	Mercy kyambai	23344534	0734255624		\		\
17	Veronica wambua	112222334	0713345245		\		\
18	Tabitha mutwii	22213355	0734233324		\		\
19	Joyce mwikali	37382635	0724454524		\	\	
20	Jacinta mutisya	28846454	0718661877		\		\
21	Jacob katila	11006680	0728116355	\			\
22	Joseph nzioka	24084372	0743435655	\		\	
23	Peter nzelya	11006380	0728116273	\			\
24	Eric mutinda	24088904	0729844105	\			\
25	Endrick mwikali	31685948	0712123565		\		\
26	Gloria mutema	22947805	0702981652		\	\	
27	Musyoka kauka	3381422	0702774636	\		\	
28	Dorothy mutia	35552535	0735346577		\	\	
29	Miriam munyi	10453454	0753563546		\		\
30	Benson kioo	13444555	0743246426	\			\
31	Magaret nyamai	13444672	0711404818		\		\
32	Kelvin muthui	29243433	0711175484	\			\

#### Zombe Mwitika Ward

S/N	PARTICIPANTS NAME	DEPARTMENT/I NSTITUTION		Female	Male
1.	SYENGO MWANZIA	WARD CLIMATE CHANGE PLANNING TEAM	0729592097		М
2.	SYLVESTER N WAMBUA	WARD CLIMATE CHANGE PLANNING TEAM	0729771240		M
3.	JACINTA M MATI	WARD CLIMATE CHANGE PLANNING TEAM	0727541693	F	
4.	PENINNAH MWONGELA	СВО	0720355323	F	
5.	FELISTUS MAKAU	CBO	0705095203	F	
6.	ANNASTACIA MAITHYA	WARD CLIMATE CHANGE PLANNING TEAM	0728040659	F	

7.	PETER KAVILU	WAPC	0723062315		М
8.	JONATHAN KANYI	ASST. CHIEF	0714093923		М
9.	SOPHIA MUTHEWA	WAPC	0720841841	F	
10.	JORUM M KAMULI	WAPC	0700349617		М
11.	SAMUEL MUNYASYA	WAPC	0724398638		М
12.	STELLA KATETHYA	WAPC	0703335638	F	
13.	LAWRENCE K JOSEPH	ASST. CHIEF	0727499107		М
14.	JACOB MUTUA	UCCS	0729451681		М
15.	JUBILANT NDINDA	UCCS	0101450850	F	
16.	KARIMI MAINA	KFS	0720395250		М
17.	CHARLES GITONGA	KFS	0722912765		М
18.	REV M NZUNI	WAPC	0722231447		М
19.	LILIAN KIMANZI	CHIEF	0724050398	F	
20.	JAMES N KITONYO	DACEO-MUTITO DISTRICT	0723979240		М
21.	TALIB K MUTONGI	ASST. CHIEF	0723653143		М
22.	SAMMY M MWENGEI	WAPC	0703911361		М
23.	CHRISTINE KILUNDU	ASST. CHIEF	0727013696	F	
24.	MULWA UVYALU	FARMER	0723673107		М
25.	JOSEPH M NTHENGE	DEPT. AGRICULTURE	0724467757		М
26.	CAXTON K KOTHO	WAPC	0719152828		М
27.	REBECCA MWANDIKA	WARD COMMITEE	0714544747	F	
28.	RODAH KITHEKA	WARD COMMITTEE	0715246107	F	
29.	KATHENDU MASYA	WARD COMMITTEE CHAIRMAN	0704042602		М
30.	DARIUS N MUTHUI	ASST. CHIEF	0704733741		М

#### Waita Ward

SN.	names	organisation	Phone Number	gender
1	alex mutuku	waita	254720324184	М
2	Rhoda Mati	waita	254714600943	F
3	paul mwenga	waita	254727813714	М
4	paul kyalo	waita	254724748258	М
5	shadrack wambua	waita	254722760153	М
6	munyoki mutemi	waita	254724848737	М
7	oliver Muthama	waita	254724119770	М
8	patrick muthui	waita	254728778463	М
9	samuel mulwa	waita	254798774366	М

10	peter kimanzi	waita	254714385485	М
11	joseph mbunge	waita	254716621468	М
12	samuel maithya	waita	254711122925	М
13	mumbi mati	waita	254729762743	F
14	naom mbaluka	waita	254715852554	F
15	philip mutemi	waita	254714095639	М
16	kalunda munyoki	waita	254720654519	М
17	peter mwanzia	waita	254726911468	М
18	benard mwangangi	waita	254700618142	М
19	ngui kamotho	waita	254702753214	М
20	steve muema	W/ADMN	254790508994	М
21	everlyne nthambi	ADSE	254707523254	F
22	festus kalulu	waita	254721591107	М
23	jackson mwendwa	CGoKTI	254791610260	М
24	juma emmily	waita	254725611181	F
25	japheth mutuku	waita	254729853241	М
26	winfrend mutinda	CGoKTI	254725404775	F

#### Tharaka Ward

No.	NAME	DEPT/	TELEPHONE	GE	NDER	AGE	AGE	
		INSTITUTION		М	F	< 35	> 35	
I	SAMMY MAUKI	CHIEF THARAKA	0717955577	V			V	
2	MARGARET STANLEY	COMMUNITY	0710581031		V		V	
3	DORCAS K. KARII	CGoKTI	0719550228		V		V	
4	ANGELAH M. KIREMA	ASST. CHIEF	0727540287		V		V	
5	MARY KAMWARA	ASST. CHIEF	0726644036		V		V	
6	JOSEPHAT MWENDWA	Tharaka WCCPT	0727958341	V			V	
7	AGNES KATHINI	Tharaka WCCPT	0708760071		V		V	
8	DANIEL M. NJAGI	ACTING A/CHIEF	0727502360	V			V	
9	FRANCIS KITHAMBA	Tharaka WCCPT	0701885821	V		V		
10	DAVID NJAGI	Tharaka WCCPT	0729605005	V		V		
П	DANSON M. KIRYA	Tharaka WCCPT	0711161439	V			V	
12	DAVID GITONGA	Tharaka WCCPT	0724897470	V			V	
13	JAMES K. NDAGARA	SNR.A/CHIEF	0724933679	V			V	
14	SAMUEL M. MBIRI	ACK	0727731047				V	
15	JULIUS NDATHO	ASST.CHIEF	0725252930	V			V	
16	TABITHA MURUARA	COMMUNITY	0728886544		V		V	
17	RUTH MWINJI	COMMUNITY	N/A		V		V	
18	ELIZABETH MWENDE	COMMUNITY	0716028636		V		V	
19	JOSEPH MUTEGI	CHAIR GATORONI PS	0701630582	1			V	
20	JULIUS KITHINJI	Tharaka WCCPT	0708523008	V			V	
21	PETER ITHARYA	Tharaka WCCPT	0729383320	V			V	
22	FRANCIS MUTHENGI	CHIEF	0729783731	V			V	
23	JOSEPH KIMENCHU	ASS/CHIEF	0721968377	V			V	
24	KANGOLA MWANTHI	AGRICULTURE	0728749291	V			V	

25	JACOB MUTUA	CGoKTI	0735567681			
26	JAPHETH MUTEMI	CGoKTI	0724799490	$\sqrt{}$	$\sqrt{}$	
27	MIRIAM MULI	CGoKTI	0717552092		 $\sqrt{}$	
28	MERCY MAWIA	CGoKTI	0721342444		 $\sqrt{}$	
29	REV.DAN MUTUNGA	CGoKTI	0726830675	$\sqrt{}$		$\sqrt{}$
30	JUSTUS M KITHONGA	SCSDO	0710421945	$\sqrt{}$		$\sqrt{}$

#### Kyuso Ward

1         Sam Mwendwa         0722491545         ADSE           2         Jackson Mwendwa         0726755466         CGOKTI           3         Fr. Samuel Musili         0726853305         Religious Leader           4         Christine M. Kimuli         0716885289         Business Lady           5         Peter Musong'a         0720738452         Livestock Rep.           6         Angeline K. Mwendaka         0710941226         Village Admin.           7         Bunny Museo Muthami         0705408733         Female Youth Rep.           8         Marylin K. Kilonzo         0726088055         Village Admin.           9         Marylin M. Muthui         0715146160         CBO Rep.           10         John Muisyo         0702496638         Youth Rep.           11         Dominic K. Kabwere         0707657593         Crop Rep.           12         Boniface Wambua         0792365236         Water Officer Rep.           13         James Mutuku Mwendwa         0792538443         Pwds           14         David M. King'ori         0727628158         MPSMA           15         Peter M. Nzioki         07253439529         MPSMA           16         Joshua R. Kilonzo         0715449614	No.	PARTICIPANT'S NAME	CONTACT	ORGANIZATION/CATEGORY
3         Fr. Samuel Musili         0726853305         Religious Leader           4         Christine M. Kimuli         0716885289         Business Lady           5         Peter Musong'a         0720738452         Livestock Rep.           6         Angeline K. Mwendaka         0710941226         Village Admin.           7         Bunny Museo Muthami         0705408733         Female Youth Rep.           8         Marylin K. Kilonzo         0726088055         Village Admin.           9         Marylin M. Muthui         0715146160         CBO Rep.           10         John Muisyo         0702496638         Youth Rep.           11         Dominic K. Kabwere         0707657593         Crop Rep.           12         Boniface Wambua         0792365236         Water Officer Rep.           13         James Mutuku Mwendwa         0792538443         Pwds           14         David M. King'ori         0727628158         MPSMA           15         Peter M. Nzioki         0725439529         MPSMA           16         Joshua R. Kilonzo         0715449614         MPSMA           17         Evans Lumumba         0725238031         LIHUD           18         Dominic Nzoka         0727246170 <th< td=""><td>1</td><td>Sam Mwendwa</td><td>0722491545</td><td>ADSE</td></th<>	1	Sam Mwendwa	0722491545	ADSE
4         Christine M. Kimuli         0716885289         Business Lady           5         Peter Musong'a         0720738452         Livestock Rep.           6         Angeline K. Mwendaka         0710941226         Village Admin.           7         Bunny Museo Muthami         0705408733         Female Youth Rep.           8         Marylin K. Kilonzo         0726088055         Village Admin.           9         Marylin M. Muthui         0715146160         CBO Rep.           10         John Muisyo         0702496638         Youth Rep.           11         Dominic K. Kabwere         0707657593         Crop Rep.           12         Boniface Wambua         0792365236         Water Officer Rep.           13         James Mutuku Mwendwa         0792538443         Pwds           14         David M. King'ori         0727628158         MPSMA           15         Peter M. Nzioki         0725439529         MPSMA           16         Joshua R. Kilonzo         0715449614         MPSMA           17         Evans Lumumba         0727246170         MPSMA           19         Wilson K. Maanzo         0727517930         NGAO           20         Priscah Mawia Mwinzi         0701818676         Wome	2	Jackson Mwendwa	0726755466	CGOKTI
5         Peter Musong'a         0720738452         Livestock Rep.           6         Angeline K. Mwendaka         0710941226         Village Admin.           7         Bunny Museo Muthami         0705408733         Female Youth Rep.           8         Marylin K. Kilonzo         0726088055         Village Admin.           9         Marylin M. Muthui         0715146160         CBO Rep.           10         John Muisyo         0702496638         Youth Rep.           11         Dominic K. Kabwere         0707657593         Crop Rep.           12         Boniface Wambua         0792365236         Water Officer Rep.           13         James Mutuku Mwendwa         0792538443         Pwds           14         David M. King'ori         0727628158         MPSMA           15         Peter M. Nzioki         0725439529         MPSMA           16         Joshua R. Kilonzo         0715449614         MPSMA           17         Evans Lumumba         0725238031         LIHUD           18         Dominic Nzoka         07277246170         MPSMA           19         Wilson K. Maanzo         0727517930         NGAO           20         Priscah Mawia Mwinzi         0701818676         Women Rep.	3	Fr. Samuel Musili	0726853305	Religious Leader
6         Angeline K. Mwendaka         0710941226         Village Admin.           7         Bunny Museo Muthami         0705408733         Female Youth Rep.           8         Marylin K. Kilonzo         0726088055         Village Admin.           9         Marylin M. Muthui         0715146160         CBO Rep.           10         John Muisyo         0702496638         Youth Rep.           11         Dominic K. Kabwere         0707657593         Crop Rep.           12         Boniface Wambua         0792365236         Water Officer Rep.           13         James Mutuku Mwendwa         0792538443         Pwds           14         David M. Kingʻori         0727628158         MPSMA           15         Peter M. Nzioki         0725439529         MPSMA           16         Joshua R. Kilonzo         0715449614         MPSMA           17         Evans Lumumba         0725238031         LIHUD           18         Dominic Nzoka         0727246170         MPSMA           19         Wilson K. Maanzo         0727517930         NGAO           20         Priscah Mawia Mwinzi         0701818676         Women Rep.           21         Anthony M. Kavisi         0725973792         Agricultural Exte	4	Christine M. Kimuli	0716885289	Business Lady
7         Bunny Museo Muthami         0705408733         Female Youth Rep.           8         Marylin K. Kilonzo         0726088055         Village Admin.           9         Marylin M. Muthui         0715146160         CBO Rep.           10         John Muisyo         0702496638         Youth Rep.           11         Dominic K. Kabwere         0707657593         Crop Rep.           12         Boniface Wambua         0792365236         Water Officer Rep.           13         James Mutuku Mwendwa         0792538443         Pwds           14         David M. Kingʻori         0727628158         MPSMA           15         Peter M. Nzioki         0725439529         MPSMA           16         Joshua R. Kilonzo         0715449614         MPSMA           17         Evans Lumumba         0725238031         LIHUD           18         Dominic Nzoka         0727246170         MPSMA           19         Wilson K. Maanzo         0727517930         NGAO           20         Priscah Mawia Mwinzi         0701818676         Women Rep.           21         Anthony M. Kavisi         0725973792         Agricultural Extension	5	Peter Musong'a	0720738452	Livestock Rep.
8         Marylin K. Kilonzo         0726088055         Village Admin.           9         Marylin M. Muthui         0715146160         CBO Rep.           10         John Muisyo         0702496638         Youth Rep.           11         Dominic K. Kabwere         0707657593         Crop Rep.           12         Boniface Wambua         0792365236         Water Officer Rep.           13         James Mutuku Mwendwa         0792538443         Pwds           14         David M. Kingʻori         0727628158         MPSMA           15         Peter M. Nzioki         0725439529         MPSMA           16         Joshua R. Kilonzo         0715449614         MPSMA           17         Evans Lumumba         0725238031         LIHUD           18         Dominic Nzoka         0727246170         MPSMA           19         Wilson K. Maanzo         0727517930         NGAO           20         Priscah Mawia Mwinzi         0701818676         Women Rep.           21         Anthony M. Kavisi         0725973792         Agricultural Extension	6	Angeline K. Mwendaka	0710941226	Village Admin.
9       Marylin M. Muthui       0715146160       CBO Rep.         10       John Muisyo       0702496638       Youth Rep.         11       Dominic K. Kabwere       0707657593       Crop Rep.         12       Boniface Wambua       0792365236       Water Officer Rep.         13       James Mutuku Mwendwa       0792538443       Pwds         14       David M. Kingʻori       0727628158       MPSMA         15       Peter M. Nzioki       0725439529       MPSMA         16       Joshua R. Kilonzo       0715449614       MPSMA         17       Evans Lumumba       0725238031       LIHUD         18       Dominic Nzoka       0727246170       MPSMA         19       Wilson K. Maanzo       0727517930       NGAO         20       Priscah Mawia Mwinzi       0701818676       Women Rep.         21       Anthony M. Kavisi       0725973792       Agricultural Extension	7	Bunny Museo Muthami	0705408733	Female Youth Rep.
10       John Muisyo       0702496638       Youth Rep.         11       Dominic K. Kabwere       0707657593       Crop Rep.         12       Boniface Wambua       0792365236       Water Officer Rep.         13       James Mutuku Mwendwa       0792538443       Pwds         14       David M. Kingʻori       0727628158       MPSMA         15       Peter M. Nzioki       0725439529       MPSMA         16       Joshua R. Kilonzo       0715449614       MPSMA         17       Evans Lumumba       0725238031       LIHUD         18       Dominic Nzoka       0727246170       MPSMA         19       Wilson K. Maanzo       0727517930       NGAO         20       Priscah Mawia Mwinzi       0701818676       Women Rep.         21       Anthony M. Kavisi       0725973792       Agricultural Extension	8	Marylin K. Kilonzo	0726088055	Village Admin.
11       Dominic K. Kabwere       0707657593       Crop Rep.         12       Boniface Wambua       0792365236       Water Officer Rep.         13       James Mutuku Mwendwa       0792538443       Pwds         14       David M. Kingʻori       0727628158       MPSMA         15       Peter M. Nzioki       0725439529       MPSMA         16       Joshua R. Kilonzo       0715449614       MPSMA         17       Evans Lumumba       0725238031       LIHUD         18       Dominic Nzoka       0727246170       MPSMA         19       Wilson K. Maanzo       0727517930       NGAO         20       Priscah Mawia Mwinzi       0701818676       Women Rep.         21       Anthony M. Kavisi       0725973792       Agricultural Extension	9	Marylin M. Muthui	0715146160	CBO Rep.
12       Boniface Wambua       0792365236       Water Officer Rep.         13       James Mutuku Mwendwa       0792538443       Pwds         14       David M. King'ori       0727628158       MPSMA         15       Peter M. Nzioki       0725439529       MPSMA         16       Joshua R. Kilonzo       0715449614       MPSMA         17       Evans Lumumba       0725238031       LIHUD         18       Dominic Nzoka       0727246170       MPSMA         19       Wilson K. Maanzo       0727517930       NGAO         20       Priscah Mawia Mwinzi       0701818676       Women Rep.         21       Anthony M. Kavisi       0725973792       Agricultural Extension	10	John Muisyo	0702496638	Youth Rep.
13       James Mutuku Mwendwa       0792538443       Pwds         14       David M. King'ori       0727628158       MPSMA         15       Peter M. Nzioki       0725439529       MPSMA         16       Joshua R. Kilonzo       0715449614       MPSMA         17       Evans Lumumba       0725238031       LIHUD         18       Dominic Nzoka       0727246170       MPSMA         19       Wilson K. Maanzo       0727517930       NGAO         20       Priscah Mawia Mwinzi       0701818676       Women Rep.         21       Anthony M. Kavisi       0725973792       Agricultural Extension	11	Dominic K. Kabwere	0707657593	Crop Rep.
14         David M. King'ori         0727628158         MPSMA           15         Peter M. Nzioki         0725439529         MPSMA           16         Joshua R. Kilonzo         0715449614         MPSMA           17         Evans Lumumba         0725238031         LIHUD           18         Dominic Nzoka         0727246170         MPSMA           19         Wilson K. Maanzo         0727517930         NGAO           20         Priscah Mawia Mwinzi         0701818676         Women Rep.           21         Anthony M. Kavisi         0725973792         Agricultural Extension	12	Boniface Wambua	0792365236	Water Officer Rep.
15       Peter M. Nzioki       0725439529       MPSMA         16       Joshua R. Kilonzo       0715449614       MPSMA         17       Evans Lumumba       0725238031       LIHUD         18       Dominic Nzoka       0727246170       MPSMA         19       Wilson K. Maanzo       0727517930       NGAO         20       Priscah Mawia Mwinzi       0701818676       Women Rep.         21       Anthony M. Kavisi       0725973792       Agricultural Extension	13	James Mutuku Mwendwa	0792538443	Pwds
16       Joshua R. Kilonzo       0715449614       MPSMA         17       Evans Lumumba       0725238031       LIHUD         18       Dominic Nzoka       0727246170       MPSMA         19       Wilson K. Maanzo       0727517930       NGAO         20       Priscah Mawia Mwinzi       0701818676       Women Rep.         21       Anthony M. Kavisi       0725973792       Agricultural Extension	14	David M. King'ori	0727628158	MPSMA
17       Evans Lumumba       0725238031       LIHUD         18       Dominic Nzoka       0727246170       MPSMA         19       Wilson K. Maanzo       0727517930       NGAO         20       Priscah Mawia Mwinzi       0701818676       Women Rep.         21       Anthony M. Kavisi       0725973792       Agricultural Extension	15	Peter M. Nzioki	0725439529	MPSMA
18         Dominic Nzoka         0727246170         MPSMA           19         Wilson K. Maanzo         0727517930         NGAO           20         Priscah Mawia Mwinzi         0701818676         Women Rep.           21         Anthony M. Kavisi         0725973792         Agricultural Extension	16	Joshua R. Kilonzo	0715449614	MPSMA
19 Wilson K. Maanzo 0727517930 NGAO 20 Priscah Mawia Mwinzi 0701818676 Women Rep. 21 Anthony M. Kavisi 0725973792 Agricultural Extension	17	Evans Lumumba	0725238031	LIHUD
20 Priscah Mawia Mwinzi 0701818676 Women Rep. 21 Anthony M. Kavisi 0725973792 Agricultural Extension	18	Dominic Nzoka	0727246170	MPSMA
21 Anthony M. Kavisi 0725973792 Agricultural Extension	19	Wilson K. Maanzo	0727517930	NGAO
	20	Priscah Mawia Mwinzi	0701818676	Women Rep.
22 Josphat M. Makuyu 0729579590 CBO	21	Anthony M. Kavisi	0725973792	Agricultural Extension
	22	Josphat M. Makuyu	0729579590	СВО

23	Stephen N. Wambua	0707671979	MPSMA
24	Alfred Somoni	0723108907	LIHUD
25	Purity Mwangangi	0718889658	ADSE
26	Saul Makali	0715711237	MPSMA-Ward Admin.
27	Christine M. Kimanthi	0723359865	MPSMA

#### Nguni Ward

names	Department	Phone Number	gender
raphael syengo	Nguni WCCPT	254715150476	F
kyalo Ngei	Nguni WCCPT	254794807228	М
Andrew Mwikya	Nguni WCCPT	254727775738	М
Samuel Kitema	Nguni WCCPT	254711940449	М
John Mbiti	Nguni WCCPT	254713637964	М
Joseph Kimanzi	Nguni WCCPT	254792344004	М
Benjamin Kithuka	ADMN	254721962539	М
kevin mwendwa	Nguni WCCPT	254742044262	М
Annah Judah	Nguni WCCPT	254711363099	F
John Mutunga	Nguni WCCPT	254713560694	М
Meshack Mwendwa	Nguni WCCPT	254713149141	М
Mary Mukuni	Nguni WCCPT	254720614643	F
Sammy Kimwele	Nguni WCCPT	254729655204	М
Kasyoka Kyembeni	Nguni WCCPT	254792663230	М
Elizabeth Kithuka	Nguni WCCPT	254713268176	F
Jackson Ndengu	Nguni WCCPT	254710716007	М
Daniel Kimwele	Nguni WCCPT	254716034752	М
Peter Wambua	Nguni WCCPT	254725760623	М
Jacob Munyambu	Nguni WCCPT	254718005313	М
Doris Mbuti	Nguni WCCPT	254710716007	F
Beatrice Mutie	Nguni WCCPT	254706811373	F
Damaris Kyalo	Nguni WCCPT	254746123133	F
Mary Nduku	Nguni WCCPT	254714303812	F
Meshack Mulyungi	Nguni WCCPT	254790508994	M
Everlyne Nthambi	ADSE	254707523254	F
Festus Kalulu	SP	254721591107	M
Jackson Mwendwa	CGoKTI	254791610260	M
Ann Waita	SP	254701110432	F

japheth mutuku	ADSE	254729853241	М	
Winfrend Mutinda	CGoKTI	254725404775	F	
Flora Mbui	CGoKTI	254727030563	F	
Faith Musee	Nguni WCCPT	254725445944	F	

#### Ngomeni Ward PCRA Workshop Participants List

NO.	PARTICIPANT'S NAME	DEPARTMENT/	CONTACT	T GENDER		AGE	
		INSTITUTION		M	F	<35	>35
I	LAZARUS KIMANZI	WARD CLIMATE CHANGE PLANNING TEAM	0715177107	<b>√</b>		<b>✓</b>	
2	PURITY MUENI	CGoKTI	0714788381		✓ .	<b>√</b>	
3	AUSTIN OKOTH	CGoKTI	0727380802	✓		✓	
4	NANCY MUSYOKA	WARD CLIMATE CHANGE PLANNING TEAM	0723000492		<b>√</b>		<b>✓</b>
5	JOHN M KIMWELE	WARD CLIMATE CHANGE PLANNING TEAM	-		<b>√</b>		
6	ACOTHY M NDOO	WARD CLIMATE CHANGE PLANNING TEAM	0726113651	<b>✓</b>			✓
7	REBECCA MUTHUI	WARD CLIMATE CHANGE PLANNING TEAM	0725996768		<b>√</b>		✓
8	KIMANZIMASAI	WARD CLIMATE CHANGE PLANNING TEAM	0714120823		<b>√</b>		<b>√</b>
9	TIMOTHY KIMWELE	National Govt-Admin	0724347531	✓			✓
10	MAURICE S. NDOO	WARD CLIMATE CHANGE PLANNING TEAM	0728176207	<b>✓</b>			✓
11	REV. DANIEL MUTUNGU	CGoKTI	0726830675	<b>√</b>			<b>√</b>
12	JACKSON MUSILIKANGA/KYAT UNENGI	Chair Ngomeni ward	0713188959	<b>✓</b>			✓
13	JOSEPH K. GITHIJI	Agricultural officer	0726524689	✓			✓
14	DAVID M. MWANZI	Vet Ngomeni ward	0723000326	✓			✓
15	NICODEMUS B. MENGI	MBR. Kamusiliu	0719601803	<b>✓</b>			✓
16	JOSEPH M. KITHEKA	Peace comm. chair	0711260578	✓			✓
17	SIMON M. MUTEMI	CGoKTI	0727718087	✓			✓
18	STEPHEN MUNYITHYA	CGoKTI	0724521070	<b>✓</b>			<b>√</b>
19	JULIUS MUSUNGU	CGoKTI	0729977508	✓			✓
20	REV. BENJAMIN M. MTHUI	WARD CLIMATE CHANGE PLANNING TEAM	0727730995	<b>✓</b>			
21	PRISCILLA MUTINDA	WARD CLIMATE CHANGE PLANNING TEAM	0726618862			<b>V</b>	
22	REGINA KIMANZI	WARD CLIMATE CHANGE PLANNING TEAM	0713152989		✓		<b>√</b>
23	JOSPHAT K. MUISYO	WARD CLIMATE CHANGE PLANNING TEAM	0710713891	<b>√</b>			<b>√</b>

24	PRISCILLA NDITHYA	Youth representative	0717745779		✓	✓	
25	PURITY KIMWELE	Youth Representative	0712745779		✓		
26	MICHAEL MUTIE	WARD CLIMATE CHANGE PLANNING TEAM	0733786260	<b>√</b>			<b>√</b>
27	DAVID KILONZI	WARD CLIMATE CHANGE PLANNING TEAM	0705300053	<b>√</b>			<b>√</b>
28	BENSON KIMOTE	CGoKTI	0728699737	✓		✓	
29	CHARLES MBUVI	CGoKTI	0723135639	✓		✓	
30	JOSHUA N MUTUA	WARD CLIMATE CHANGE PLANNING TEAM	0729608397	<b>√</b>		<b>√</b>	

#### Mutito Kaliku Ward

S/N	PARTICIPANTS NAME	DEPARTMENT/I NSTITUTION		Female	Male
1.	SYENGO MWANZIA	WARD CLIMATE CHANGE PLANNING TEAM	0729592097		М
2.	SYLVESTER N WAMBUA	WARD CLIMATE CHANGE PLANNING TEAM	0729771240		M
3.	JACINTA M MATI	WARD CLIMATE CHANGE PLANNING TEAM	0727541693	F	
4.	PENINNAH MWONGELA	СВО	0720355323	F	
5.	FELISTUS MAKAU	CBO	0705095203	F	
6.	ANNASTACIA MAITHYA	WARD CLIMATE CHANGE PLANNING TEAM	0728040659	F	
7.	PETER KAVILU	WAPC	0723062315		М
8.	JONATHAN KANYI	ASST. CHIEF	0714093923		М
9.	SOPHIA MUTHEWA	WAPC	0720841841	F	
10.	JORUM M KAMULI	WAPC	0700349617		М
11.	SAMUEL MUNYASYA	WAPC	0724398638		М
12.	STELLA KATETHYA	WAPC	0703335638	F	
13.	LAWRENCE K JOSEPH	ASST. CHIEF	0727499107		М
14.	JACOB MUTUA	UCCS	0729451681		М
15.	JUBILANT NDINDA	UCCS	0101450850	F	
16.	KARIMI MAINA	KFS	0720395250		М
17.	CHARLES GITONGA	KFS	0722912765		М

18.	REV M NZUNI	WAPC	0722231447		М
19.	LILIAN KIMANZI	CHIEF	0724050398	F	
20.	JAMES N KITONYO	DACEO-MUTITO DISTRICT	0723979240		М
21.	TALIB K MUTONGI	ASST. CHIEF	0723653143		М
22.	SAMMY M MWENGEI	WAPC	0703911361		М
23.	CHRISTINE KILUNDU	ASST. CHIEF	0727013696	F	
24.	MULWA UVYALU	FARMER	0723673107		М
25.	JOSEPH M NTHENGE	DEPT. AGRICULTURE	0724467757		М
26.	CAXTON K KOTHO	WAPC	0719152828		М
27.	REBECCA MWANDIKA	WARD COMMITEE	0714544747	F	
28.	RODAH KITHEKA	WARD COMMITTEE	0715246107	F	
29.	KATHENDU MASYA	WARD COMMITTEE CHAIRMAN	0704042602		М
30.	DARIUS N MUTHUI	ASST. CHIEF	0704733741		М

#### Mutha Ward

NO	NAME OF PARTICIPANTS	DEPARTMENT/INSTITUTION	CONTACTS	GENDER	
				MALE	FEMALE
1.	RICHARD K.KAMWOLO	WARD CLIMATE CHANGE	0723884212	Х	
		PLANNING TEAM			
2.	JAMES R. MAWIOO	WARD CLIMATE CHANGE	0710422606	Х	
		PLANNING TEAM			
3.	RAPHAEL T. MWONGELA	COMMUNITY	0715867053	Х	
4.	DOMINIC KINYUNZO	MIDP-CBO	0723659389	Х	
5.	MUTUA MULANDI	ELDER	0724569737	Х	
6.	JACKSON MUTUA	PASTOR	0717001355	Х	
7.	FAITH MAKAU	MICNG	0724663785		Х
8.	AGNES MWANZIA	WARD CLIMATE CHANGE	07189559316		Х
		PLANNING TEAM			
9.	MARY K. KAMOE	WARD CLIMATE CHANGE	0716399316		Х
		PLANNING TEAM			
10.	FEDELIS M. LINGILI	WARD CLIMATE CHANGE	0725906726		Х
		PLANNING TEAM			
11.	SOLOMON M.MUSYA	CHIEF MUTHA	0719861488	Х	
12.	PAUL GEOFFREY	YOUTH REP	0718149582	Х	
13.	NGWIO MULATYA	LOCAL ELDER	0718799821	Х	
14.	KOKI MULU MUTOKAA	MUTHA	0727541753		Х
15.	JOSEPH MAKAU	EDUCATION	0726305561	Х	
16.	MUENI KYALO	MEMBER	0705279570		Х
17.	ANDREW NGUI	PASTOR	0725650901	Х	
18.	SOLOMON K. MULU	WATER	0725056125	Х	
19.	MARY MASILA	BUSINESS LADY	0708408088		Х

20.	JENIFFER N.MWATHE	LEADER	0702943329		Х
21.	STEVE MUEMA	WARD ADMIN(MUTHA)	0710122237	Χ	
22.	PETER KILWENGE	PASTOR	07288490777	Х	
23.	MICHAEL KAVEVA	CARITUS KITUI	0727416516	Х	
24.	MARTIN M. KAMWANZA	ADS-E RAPPORTEUR	0728377940	Х	
25.	ELIZABETH N. KAMAU	TEAM LEADER	0723075025		Χ
26.	ESTHER MAKALI	ASSISTANT LOGISTIC	0726167807		Х
27.	ISAAC MASWILI	WARD CLIMATE CHANGE	0711309039	Х	
		PLANNING TEAM			
28.	JACKSON IVUTI	PASTOR	0717001335	Х	
29.	MUTIA MULANDI	ELDER	N/A	Х	
30.	DNIEL K. KOMU	MICNG	0172235407	Х	
31.	STEPHEN K.GITAU	ACC	0720450995	Χ	
32.	HELEN N. MULI	LOGISTICIAN-ADS-E	0713270696		X

#### Mumoni Ward

S/N	NAME	ID	Mobile	GEN	IDER	AGE	
				М	F	Below 35	Above 35
1.	Norah Kithome	13590833	0724546627		/		/
2.	John mutisya	20999335	0728024763		/		/
3.	Patrick m. kitiva	22194819	0711929562	/			/
4.	Raphael K. Mbiu	6220900	07216683263	/			/
5.	Paul kasimu	12960402	0757861625	/			/
6.	Peter nzioka	3714505	0713152652	/			/
7.	Michael kimanzi	11354237	0713166607	/			/
8.	Esther ngau	12719026	0700693744		/		/
9.	Angelina Muthanga	1177703	0729677855		/		/
10.	Grace k. ngui	0273706	0726919595		/		/
11.	Sabina mutia	317923	0704463687		/		/
12.	Kamene kingoo	11858138	0721613507		/		/
13.	Regina katilo	3672455	0713388472		/		/
14.	Benedict nguthu	3457132	0729142764	/			/
15.	James mutembei	27457688	0729013289	/		/	
16.	Benard muthombe	1737827	0711298213	/			/
17.	Nickson kimanzi	25550960	0727066766	/			/
18.	Pastor james mulwa	22023560	0727223582	/			/
19.	Richard mulwa	232877648	0724788053	/		/	
20.	Richard mungola	27799021	0714823257	/		/	
21.	Veronica muinde	2018201	072080854		/		/
22.	Jacinta nzioki	9276090	0722350548		/		/
23.	Edward mutual	1163965	0721689333	/			/
24.	Nzomo mitau	0273812	0723453500	/			/
25.	Laureen Tabitha	28875501	0791343886		/	/	
26.	Grace Kilonzo	11208507	0720404099		/		/

27.	Caroline musyoki	27310120	0700384635		/	/	
28.	Catherine kamanda	28531839	0721624336		/	/	
29.	Richard mwanzia	25946249	0714823257	/			/
30.	Paulina kalungu	12960402	0757819001		/	/	
31.	Esther kavinya	13178190	0700693744		/		/
32.	Virginia kilui	25817071	0717445610		/		/

## Migwani Ward

Entry.	Name	Gender	Phone	Designition.
1.	Sam Mwendwa	M	0722491545	ADSE
2.	Lawrence Ikuku	M	0710503096	Chief
3.	Jackeline K. Vasi.	F	0721174153	Village Admin
4.	Grace Muli.	F	0710891869	Chief
5.	Kasyoki Kongo	M	0706477891	Chief
6.	Regina Mwendwa	F	0715746517	Village Admin
7.	Josephine Mathenge	F	0724079004	Chief
8.	Agnes Mwangangi	F	0725657455	
9.	Esther Ngeta	F	0725996527	CGOK
10.	Erastus Mwendwa	M	0713322490	
11.	Elijah M. Kavindu	M	0728387370	WCCPT
12.	Carole K. Kamote	F	0722929635	CGOK
13.	Stella M. David	F	0718143349	CGOK
14.	Rose Stephene.	F	0718413883	WCCPT
15.	Priscila Mutua	F	0748236544	WCCPT
16.	Francis Ilai	M	0723062274	WCCPT
17.	Stephen Kauna	M	0723087033	CGOK
18.	Lucia M. Katwa.	F	0715003156	WCCPT
19.	Carol M. Tito	F	0713049701	WCCPT
20.	Charles M. Musai	M	0724314401	WCCPT
21.	Patrick Kalinda	M	0712682303	SCWO
22.	Joseph Mue	M	0725396247	Chief
23.	Theophilus K. Kalundu	M	0712235433	Village Admin
24.	Jackson Mwendwa	M	0726755466	CGOK
25.	Rose Kavili	F	0705814736	CGOK
26.	James Ithoka	M	0726755466	MCA office.

### PCRA Workshop Participants Lists

SN.	names		Phone Number	gender
1	felix	mutinda	254722620483	М
2	mirriam	musee	254729680214	F
3	nyerere	kimuli	254720205082	М
4	mulaa	katuva	254114926992	М
5	mutethya	kali	254723105357	F
6	annastatcia	musyoka	254792114667	F
7	titus	muthui	254741786544	М
8	george	ndua	254720416904	М
9	stephene	musembi	254720550352	М
10	onesmus	kasilu	254723485371	М
11	justus	musee	254723555437	М
12	annastatcia	ngome	254728427430	F
13	Iorna	dennis	254716988932	F
14	gladys	kyalo	254700601837	F
15	john	boit	254721815646	М
16	anthony	kavai	254726150894	М
17	benjamin	kilonzo	254712876935	М
18	fredrick	mangwii	254722731067	М
19	stephene	mitau	254723724329	М
20	julius	kalinga	254726846602	М
21	stephen	nguta	254725297144	М
22	antony	kyalo	254111748976	М
23	hellen	zakayo	254722687408	F
24	clief	musyimi	254720804663	F
25	nelyen	mwema	254746069429	F
26	lena	wambua	254748917203	F
27	dennis	makau	254741364042	М
28	jane	kimanzi	254721619622	F
29	josephat	kiema	254748301330	М
30	carol	kimanzi	254715688385	F
30	everlyne	nthambi	254707523254	F
31	festus	kiswili	254721591107	М
32	Flora	mbui	254727030563	F
33	Rhoda	mati	254722286950	F
34	purity	mbithe	254799795120	F
35	japheth	mutuku	254729853241	М

## Kyome Thaana Ward

## PCRA Workshop Participants

Entry.	Name	Gender	Phone	Designition.
27.	Sam Mwendwa	M	0722491545	ADSE
28.	Lawrence Ikuku	M	0710503096	Chief
29.	Jackeline K. Vasi.	F	0721174153	Village Admin
30.	Grace Muli.	F	0710891869	Chief
31.	Kasyoki Kongo	M	0706477891	Chief
32.	Regina Mwendwa	F	0715746517	Village Admin
33.	Josephine Mathenge	F	0724079004	Chief
34.	Agnes Mwangangi	F	0725657455	
35.	Esther Ngeta	F	0725996527	CGOK
36.	Erastus Mwendwa	M	0713322490	
37.	Elijah M. Kavindu	M	0728387370	WCCPT
38.	Carole K. Kamote	F	0722929635	CGOK
39.	Stella M. David	F	0718143349	CGOK
40.	Rose Stephene.	F	0718413883	WCCPT
41.	Priscila Mutua	F	0748236544	WCCPT
42.	Francis Ilai	M	0723062274	WCCPT
43.	Stephen Kauna	M	0723087033	CGOK
44.	Lucia M. Katwa.	F	0715003156	WCCPT
45.	Carol M. Tito	F	0713049701	WCCPT
46.	Charles M. Musai	M	0724314401	WCCPT
47.	Patrick Kalinda	M	0712682303	SCWO
48.	Joseph Mue	M	0725396247	Chief
49.	Theophilus K. Kalundu	M	0712235433	Village Admin
50.	Jackson Mwendwa	M	0726755466	CGOK
51.	Rose Kavili	F	0705814736	CGOK
52.	James Ithoka	M	0726755466	MCA office.

#### Kwa Vonza Yatta Ward

NO.	NAME OF PARTICIPANT	INSTITUTION
1	ABEDNEGO MUNGUTI	CHIEF
2	SHARRIF MUKULU	CG <sub>0</sub> KTI
3	SAM MWENDWA	ADS-E
3	RISPER WAENI	CGoKTI

4	MERCY VUNDI	CGoKTI
5	EMMA LANYO	CGoKTI
6	FAITH KILUNGU	CGoKTI
7	JOSEPH KITHUKA	WATER
8	ALEX NGUMBI	CHIEF
9	ESTHER KASOA	CHIEF
10	PETER KIEMA	CHIEF
	WILLIE MULWA	CHIEF
12	REV. CANON MWOVA	REV.
13	AGNES K. CHARLES	CHIEF
14	BONFACE MUNYAO	MEMBER
	JOHN K. MAINGA	CHAIR WAPC
	RICHARD MULI	CHAIR-WDDC
17	MATHIAS NZYAKA	WARD CLIAMTE CHANGE
		PLANNING TEAM
18	ALPHONSE KITAI	WARD CLIAMTE CHANGE
		PLANNING TEAM
19	KITILI KIVALI	WARD CLIAMTE CHANGE
		PLANNING TEAM
20	PHOEBE NDUNDA	WARD CLIAMTE CHANGE
		PLANNING TEAM
21	DAMARIS MWAMBUI	WARD CLIAMTE CHANGE
		PLANNING TEAM
22	MARY K. MUTUNGA	WARD CLIAMTE CHANGE
		PLANNING TEAM
23	AGNES MWANZIA	WARD CLIAMTE CHANGE
		PLANNING TEAM
24	ELIZABETH WAITA	WARD CLIAMTE CHANGE
		PLANNING TEAM
25	MARY MITAU	WARD CLIAMTE CHANGE
		PLANNING TEAM
26	CAROLINE ISIKA	WARD CLIAMTE CHANGE
27	CHARLEC M. KILLIKH	PLANNING TEAM
27	CHARLES M. KILIKU	WARD CLIAMTE CHANGE
20	DENHAMINI MAKANIDA	PLANNING TEAM
28	BENJAMIN MAKANDA	WARD CLIAMTE CHANGE
20	ALICE K KIMEU	PLANNING TEAM
29	ALICE N NIMEU	WARD REP.

### Kiomo/Kyethani Ward

NO.	PARTICIPANT'S NAME	Department/ institution	Ger	nder
			M	F
1.	RICHARD TUTA	WARD ADMIN	М	

2.	HELLEN MWASYA	WARD CLIMATE CHANGE PLANNING TEAM		F
3.	KIANDA MUTUNGA	WARD CLIMATE CHANGE PLANNING TEAM	М	
4.	TABITHA MUTHUI	WARD CLIMATE CHANGE PLANNING TEAM		F
5.	DANIEL KITEME	WARD CLIMATE CHANGE PLANNING TEAM	M	
6.	MUVENGEI MWENDWA	WARD CLIMATE CHANGE PLANNING TEAM	M	
7.	DANIEL KATUKU NZOKA	WARD CLIMATE CHANGE PLANNING TEAM	M	
8.	STEPHEN MUNENE	KFS	M	
9.	DAVID MULYUNGI	WARD CLIMATE CHANGE PLANNING TEAM	M	
10.	FRANCIS MUSYIMI	CHIEF	M	
11.	MWINZI MUVENGEI	CHIEF	М	
12.	BENEDETTA WAMUA	A SST CHIEF		F
13.	DANIEL KYUMBU	ASST CHIEF	М	
		Department/ institution	Gender	
NO.	PARTICIPANT'S NAME		M	F
15.	PATRICK MULONZYA	WARD CLIMATE CHANGE PLANNING TEAM	M	
16.	KASEE KIUSYA	CHIEF	M	
17.	ESTHER KAVATA MUTHUI	СВО		F
18.	MWIKALI MUSILI MUOKA	СВО		F
19.	RICHARD MASUSU	COMMUNITY MEMBER	M	
20.	KIMANZI MUSYOKA	COMMUNITY MEMBER	M	
21.	EUNICE MUTEMI	COMMUNITY MEMBER		F
22.	JUSTUS MUTEMI	COMMUNITY MEMBER	М	
23.	KASUKULU MAVINDYA	COMMUNITY MEMBER	М	

	PETER MUKULU	COMMUNITY MEMBER	М	
24.				
	PETER KIMANZI	COMMUNITY MEMBER	M	
25.				
	STEPHEN MULI	ADSE	M	
26.				
	JENIFFER KANINI JUMA	ADSE		F
27.				
	EDWARD MAKAU	ADSE	M	
28.				
	JOHN MWENDWA	COMMUNITY MEMBER	M	
29.				
	EDITH KAVUTHA MUSILI	COMMUNITY MEMBER	М	
30.				

## Kanyangi Ward

S/N	NAME	ID	Mobile	GEN	IDER	AGE		
				М	F	Below 35	Above 35	
1.	Boniface K. Malii	23814726	0723061996	/			/	
2.	Elijah Mutua Miwa	262555135	0711423002	/		/		
3.	Felix Mutemi	20029115	0721952527	/			/	
4.	John Masila	22585300	0710263479	/			/	
5.	Joseph Kilonzi	10434143	0723796294	/			/	
6.	Jackson Ngandi	28036352	0705765195	/		/		
7.	Rose M. Mati	21174567	0721519617		/		/	
8.	Bostina Nzungo	7004046	0726909996		/		/	
9.	Patrick Munyoki	20165258	0724537022	/			/	
10.	Ann Mwanzia	24795158	0712669317		/		/	
11.	Frida K. Kavindu	28912416	0724527953		/	/		
12.	Muema Kilonzo	6536829	0740718247	/			/	
13.	Gabriel Ivui	11859397	0728467382	/			/	
14.	Beatrice Makasi	7417907	0715314939		/		/	
15.	Anna Musyoka	23811620	0706480880		/		/	
16.	Kavula Daniel	25660471	0700444799		/		/	
17.	Gilbert Wia	14457668	0727731339	/			/	
18.	Meshack Musyoka	31582523	0710928566	/		/		
19.	Juliana K. Kyaliwa	36492682	0705739156		/	/		
20.	John Mwangangi	8990194	0706333007	/			/	
21.	Shadrack Mwaniki	21859655	0724920773	/			/	
22.	Felistus Mbaluka	32865227	0703094700		/	/		
23.	Marcos Kyunuve	13782292	0723943719	/			/	
24.	Petronila Ngui	13095837	0721586286		/		/	

25.	Benjamin kitavi	21735507	0721171185	/		/
26.	Jacob Mburu	22440823	0724607135	/		/
27.	Daniel Kiema	14698707	0758574243	/		/
28.	Nicodemus Mwanzia					
29.	Jacinta Museo					
30.	Cosmas Mwanzia					

#### Ikutha Ward

No	Participants name	Department/	Contact/Telephone	Gender				
	•	Institution	•	M <35>		F <35>		
I	MESHACKMUTUKU	KASAALA	0711994803	<b>√</b>				
2	MILCAKYAMBIA	KYOANI SUB LOCATION	0729841311				✓	
3	JUSTUS M. NGOMO	IKUTHA	0727725074		✓			
4	PETER M KIVELENGE	SAMBA SUB LOCATION	0727867291	✓				
5	GLADYS K MASINGU	WAPC	0729079758			<b>√</b>		
6	NDUKU SARAH	NDILI SUB LOCATION	0703654718			<b>✓</b>		
7	RHODAHMWANDUKA	IKUTHA	0724448812			<b>✓</b>		
8	FRANCIS K KITUKU	IKUTHA	0724995861		✓			
9	CHARLES MUNYI	IKUTHA	0727498049		✓			
10	PATRICK MUSANGE	KASAALA	0727217793		✓			
П	MUTHAMIKYAMOTE	KASAALA	0711957003		✓			
12	IRENE KITAVI	KASAALA	0721255929				✓	
13	NDINDA K KYALO	IKUTHA	0713894296				✓	
14	JACKLINE JAMES	NDILI	0729876969			✓		
15	PAUL MUSEMBI	WAES IKUTHA	0725085795		✓			
16	SHARLET M MUSIMGI	WAPC	0710286850			✓		
17	DICKSON W MWAZIKU	WAPC	0728053315		✓			
18	BERNARD J KISENGESE	WAPC	0729072193		✓			
19	PHILIP K KATEE	IKUTHA	0704957441		✓			
20	JOHN N MUTUNGA	KASAALA	0711465591		✓			
21	DAVID MATUKU	NGAWUNI	0728113228		✓			
22	ENOCK M MUKWA	WAPC	0721593703		✓			
23	PHILIP M IVULI	IKUTHA	0701077512		✓			
24	MUTINDAMAUNDU	KASAALA	0721562207		✓			
25	SHADRACKMUTUA	ADS-E	0726348584	<b>✓</b>				
26	BENJAMIN M. NGUMBI	ADS-E	0729259734	✓				
27	WACHIRASHELMITH	ADS-E	0700429494			<b>✓</b>		
28	EUNICE MUSANGI	ADS-E	0716817526			<b>✓</b>		
29	ISAACMUTUKU	ADS-E	0704443650	✓				
30	KYALO J. MATUKU	WARD ADMINISTRATOR	0721593703		✓			

### Ikanga/Kyatune Ward

## PCRA Workshop Participants

Entry	Name	Gender	Phone	Category/Organization
1.	Sam Mwendwa	M	0722491545	ADSE
2.	Joycaster S. Mumina	F	0729224606	Ward Admin
3.	Michael O. Otieno	M	0720794770	ACC Ikanga/Kyatune
4.	Faith Kilungu	F	0714549242	ADSE
5.	Joshua Muasya	M	0729466234	Chief
6.	Onesmus Mutaula	M	0712184182	ASS. Chief
7.	Jeremiah Kalenga	F	0729672461	Village Admin
8.	David Mutua	M	0714936740	Committee Member
9.	Petronilla M. Musembi	F	0705666393	Committee Member
10.	Celestinne R. Matundu	F	0701821762	Village Admin
11.	Julius J. Masavi	M	0722856123	Vilaage Admin
12.	Annastacia Mary Maleve	F	0741032827	MCA Rep
13.	Petronila Malii	F	0711494792	Committee Member
14.	William S. Katuva	М	0727162406	Village Admin
15.	Paul Kathenge	М	0722817197	RCSD.
16.	Japheth M. Ndunda	М	0724960027	Ward Clerk
17.	Rose Kivili	F	0705814736	ENVIRONMENT
18.	Jackson Mwendwa	М	0726755466	ENVIRONMENT
19.	Elizabeth Sumaili	F	0716012139	WAES
20.	John David Musyala	М	0728374706	Village Admin
21.	Mwamto Fadhili	М	0717190175	Committee Member
22.	John K. Mwangangi	М	0729596497	Chairperson
23.	Caroline M. Kivindyo	F	0717227543	Member
24.	Frominah M. Mwati	F	0799202999	Member
25.	Patricia K. Joseph	F	0700874762	Member
26.	Angela Michael	F	0727563789	Village Admin
27.	Peter K. Mbuvi	M	0724330213	Member
28.	Joseph K. Kilatya	M	0722856123	Vilage Admin
29.	Shedrack Mutinda	М	0721248325	Village Admin

#### Chuluni Ward

#### PCRA Workshop Participants Lists

No.	Participant's Name	Mobile Number	Organization/Category
1	Sam Mwendwa	0722491545	ADSE
2	Jackson Mwendwa	0726755466	CGOK MENR
3	Marian John	0719707999	CGOK MENR

4	Dickson Mwilu	0768264488	WCCPT
5	Bernard M. Katee	0726820067	WCCPT
6	Blaise Malii	0706301673	CGOK-VA
7	Alexander Mwangangi	0713193172	CGOK-VA
8	Kimanga Kasyani	0727155205	FOR MCA
9	Gladys J Ndinda	0713639745	MCA
10	Lenah Muema	0702071276	WCCPT
11	Everlyn Sofa	0719311578	WCCPT
12	Linah Ndulu	0702170830	FOR MCA
13	Julius Ndambuki	0721828631	WCCPT
14	Isaiah M. Kieti	0728310653	VA-MPSMA
15	Christopher M. Mutambuki	0722816220	WCCPT
16	Titus Kakundi	0728390320	WCCPT
17	Mary K. Nyamai	0720464585	WCCPT
18	Kisalu Musili	0790136632	WCCPT
19	Jennifer Mulatya	0710902916	VA
20	Colleen Mweke	0711711011	WARD ADMIN
21	Mirriam Monyi	0702929561	WARD ADMIN
22	Alex Kilunda	0720528275	W/A MPSMA
23	Jackson Maingi	0729466373	VA(GOK)

#### Kauwi Ward

NO	PARTICIPANT NAMES	CONTACT	GENDER	
			M	F
1.	CHARLES M. KISEWA	0720715737	M	
2.	PHYLLIS N. MUTUKU	0722244770		F
3	FELISTUS MALOMBE	0713873566		F
4.	FESTUS K. KASAU	0729995722	M	
5.	PST. BENSON NGILA	0723229700	M	
6.	LUCY WAMBUI	0720762520		F
7.	NAOMI MUMO	0716801875		F
8.	JOSEPH M. VETELO	0718792333	M	
9.	TIMOTHY MBITI	0725549631	M	
10.	FELISTUS MUTHENGI	0727643201		F
11.	ROSALIA MUTHYA	0703300216		F
12.	NDUNDA MINDA	0717650420	M	
13.	DOUGLAS .M. ITHUKU	0720358065	M	

14.	REV.JOEL M.KIVOU	0727356155	М	
15.	JEREMIAH MUKWATE	0729625813	М	
16.	CHARITY SILA	0720981480		F
17.	GEORGE MUTUNGA	0728322889	М	
18.	SUMMERLEE MITAU	0721313008	М	
19.	FLORENCE OKOTH	0725012855		F
20.	JOHN MAINGA	0722250400	М	
21.	BENRODGERS MATUANGA	0712398369	М	
22.	ANNAH KITHEKA	0727720690		F
23.	CHRISTINE KONGO	0710665436		F
24.	EMMA LANYO	0723857360		F
25.	CHRISTOPHERKAPULA	0722461247	М	
26.	PATRICK MATUU WILSON	0721776201	М	
27.	PETER LIRU	0701651009	М	
28.	BENJAMIN .M. KIKUU	0725436339	М	
29.	JANE MWANIA	0727414172		F
30.	JAMES .M. MUEMA	0712511931	М	

### Voo Kyamatu Ward

S/N	NAME	ID	Mobile	GEN	IDER	AGE	
				М	F	Below 35	Above 35
1.	Fredrick wambua	23584215	0714362593	/			/
2.	Muluka Meshack	13783213	0723831299	/			/
3.	Kibwea mwendwa	27002639	0740714588	/			/
4.	Erickson mooki	11276785	0711954469	/			/
5.	Stephen mungami	25994552	0726347068	/		/	
6.	Rose kavutha	22118901	0727906164		/		/
7.	Lena kula	26687632	0707339399		/		/
8.	Benjamin kinyangu	24281555	0711239415	/			/
9.	Rachel mutisya	26415358	0726992189		/	/	
10.	Benson lucas	22717717	0700221584	/			/
11.	Philip mutaki	52607542	0726967524	/			/
12.	Leonard syengo	3355293	0722513529	/			
13.	Penina kula	4640098	0701874215		/		/
14.	Reuben kinyangu	1110388	0714269504	/			/
15.	Felistus mwende	28278901	0713901553		/	/	
16.	Augustus ndaka	29170205	0702610775	/		/	
17.	Juduth musango	34609215	0742006165		/	/	
18.	Zaituny nzomo	12961305	0798047444		/		/
19.	Patricia K musau	13595452	0725085763		/		/
20.	Elizabeth musyoki	20039274	0716461112		/		/
21.	Cosmas mutia	10878796	0759147584	/			/

22.	Philip kituku	1103223	0711880548	/		
23.	Kinyamasyo ngui	32710055	0700040483	/	/	
24.	Benson mutisya	9147584	0715641745	/		/
25.	Augustus musyoka	28577773	0718642936	/	/	
26.	Sam Mwendwa	26102500	0722491845	/	/	
27.	Jackson Mwendwa	27348084	0726755466	/	/	
28.	Marian John					

## Township Ward

S/N	NAME	ID	Mobile	GEN	IDER	AGE	
				М	F	Below 35	Above 35
1.	James malonza	24156134	0707835236	/			/
2.	Jacqufolin peter	24707225	0727858316		/		/
3.	Danstan kilonzi	0272430	0722267092	/			/
4.	Fredrick kisuva	12720345	0726148399	/			/
5.	Paul kitemange	112726605	0728141147	/			/
6.	Elizabeth muinde	31375557	0700778968		/	/	
7.	Jeniffer David	11277044	0727730346		/		/
8.	Lucy mwendwa	23351291	0700519403		/		/
9.	Charles k. mungalu	13592058	0727633388	/			/
10.	Ben m kitheka	12718937	0722955120	/			/
11.	Edwin weke	33659761	0796561587	/		/	
12.	Johnstone kimanzi	30455965	0745050872	/		/	
13.	Beatrice muthui	2824886	0702019200		/	/	
14.	Geofrey mulwa	339990307	0700423458	/		/	
15.	Patricia willy	25226756	0726405735		/	/	
16.	Linda kimoli	9933932	0721248339		/		/
17.	Margaret mutisya	24630974	0769631267		/		/
18.	Esther mulandi	3150242``	0720276069		/		/
19.	Juan mwendwa	10752692	0720829447	/			/
20.	Agiki Hamis	0398088	0705769237	/			/
21.	Fredrick mwongela	29908020	0724371072	/		/	
22.	Fredrick Kisuva	12720345	0726148398	/			/
23.	danstan kilonzi	0272431	0722267092	/			/
24.	Mark ndete	21636244	0724796515	/			/
25.	Kainda mutie	160088262	07051207			/	
26.	Dominic malombe	7520578	0723867293	/			/
27.	Marian john	29473425	0719907999		/	/	
28.	Sam mwendwa	28102000	0722491519	/		/	
29.	Wilfrida moses	9402585	0719547554		/		/
30.							
31.							

### Kyangwithya West Ward

## PCRA Workshop Participants

S/N	NAME	ID	Mobile	GEN	IDER	AGE	
				М	F	Below 35	Above 35
1.	Samuel musyoki	8364660	0724229843	/			/
2.	Japheth malombe	2087854	0720816830	/			/
3.	Wiliam kavuve	21217433	0723130602	/			/
4.	Winfred s katua	27040522	0720620786		/		/
5.	Onesmus kilului	0776693	0722108382	/			/
6.	Winfred munyoki	22836518	0715042620		/		/
7.	Mwendwa mbula	6742853	0722705937	/			/
8.	Timothy mutisya	27393897	0728398739	/			/
9.	Ngomwa mwanzia	21848955	0712760989	/			/
10.	Emmah mwalili	21874806	0713275207		/		/
11.	Brigid mutanda	3597992	0715792425		/		/
12.	Magaret malombe	02717983	0722351952		/		/
13.	Charles mutanda	25315393	0746547606	/			/
14.	Anthony mutambu	11639079	0722926001	/			/
15.	Calvin mwalavu	24617819	0722802253	/		/	
16.	Stephen munyao	25221538	0716128841	/		/	
17.	Lucas mutual	27196892	0712800830	/		/	
18.	David musyoka	29668942	0714098959	/		/	
19.	Mary kinguta	25929596	0713494682		/		/
20.	Teddy juma	27828088	0723938196	/		/	
21.	Josiphine malusi	3789892	0710932843		/		
22.	Miriam kimbu	282199166	0719817920		/	/	
23.	Breta Patrick	0271335	0710662238		/		/
24.	Joyce maithya	0273895	0727293700		/		/
25.	Nicolas Kilonzo	231447765	0725663669	/			/
26.	Uenice mutanda	2502871	0728783054		/		/
27.	David maina		072869911	/			/
28.	Sebastain sausi	14698065	0721817850	/			
29.	Francis musakui	36133158	0795021026	/		/	
30.	Benjamin Wambui	135919521	0723311231	/			/
31.							

## Kyangwithya East Ward

S/N	NAME	ID	Mobile	GENDER		AGE	
				М	F	Below 35	Above 35

1. Dominic Kithusi       24616305       0720175541       /         2. Godfrey kathea       32219961       0719432454       /         3. Fred mbua       6273440       072014863       /         4. Telesia kiteme       0574633       0710657679       /         5. Robert muoi       11355493       0724455270       /         6. Farida peter       32936608       0746130927       /         7. Christine muema       19502168       0725719668       /         8. Eve Michael       20749448       0715697361       /         9. Francis muli       22744955       0719554079       /         10. Farida mutisya       31043650       0710670695       /         11. Benjamin munyoki       24613527       0728599964       /         12. Jedida muema       22287373       0710670695       /         13. Jeniffer mueni       20063908       0723107301       /         14. Patrick muteta       35949986       0716015529       /         15. John K. Malombe       9932789       0721580827       /         16. Alice kimeu       22380359       0720109452       /         17. Stella Lilian       32379254       0708631694       /         19.
3. Fred mbua       6273440       072014863       /       /         4. Telesia kiteme       0574633       0710657679       /       /         5. Robert muoi       11355493       0724455270       /       /         6. Farida peter       32936608       0746130927       /       /         7. Christine muema       19502168       0725719668       /       /         8. Eve Michael       20749448       0715697361       /       /         9. Francis muli       22744955       0719554079       /       /         10. Farida mutisya       31043650       0710670695       /       /         11. Benjamin munyoki       24613527       0728599964       /       /         12. Jedida muema       22287373       0710913073       /       /         13. Jeniffer mueni       20063908       0723107301       /       /         14. Patrick muteta       35949986       0716015529       /       /         15. John K. Malombe       9932789       0721580827       /       /         17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /       /      <
4.       Telesia kiteme       0574633       0710657679       /       /         5.       Robert muoi       11355493       0724455270       /       /         6.       Farida peter       32936608       0746130927       /       /         7.       Christine muema       19502168       0725719668       /       /         8.       Eve Michael       20749448       0715697361       /       /         9.       Francis muli       22744955       0719554079       /       /         10.       Farida mutisya       31043650       0710670695       /       /         11.       Benjamin munyoki       24613527       0728599964       /       /         12.       Jedida muema       22287373       0710913073       /       /         13.       Jeniffer mueni       20063908       0723107301       /       /         14.       Patrick muteta       35949986       0716015529       /       /         15.       John K. Malombe       9932789       0721580827       /       /         17.       Stella Lilian       32379254       0708631694       /       /         18.       Stanely nguve       11209943
5. Robert muoi       11355493       0724455270       /         6. Farida peter       32936608       0746130927       /         7. Christine muema       19502168       0725719668       /         8. Eve Michael       20749448       0715697361       /         9. Francis muli       22744955       0719554079       /         10. Farida mutisya       31043650       0710670695       /         11. Benjamin munyoki       24613527       0728599964       /         12. Jedida muema       22287373       0710913073       /       /         13. Jeniffer mueni       20063908       0723107301       /       /         14. Patrick muteta       35949986       0716015529       /       /         15. John K. Malombe       9932789       0721580827       /       /         16. Alice kimeu       22380359       0720109452       /       /         17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /       /         19. Boniface mbuvi       0273554       0722254018       /       /         20. Oscar Kitoo       14455559       0723357834       /       /
6.       Farida peter       32936608       0746130927       /       /         7.       Christine muema       19502168       0725719668       /       /         8.       Eve Michael       20749448       0715697361       /       /         9.       Francis muli       22744955       0719554079       /       /         10.       Farida mutisya       31043650       0710670695       /       /         11.       Benjamin munyoki       24613527       0728599964       /       /         12.       Jedida muema       22287373       0710913073       /       /         13.       Jeniffer mueni       20063908       0723107301       /       /         14.       Patrick muteta       35949986       0716015529       /       /         15.       John K. Malombe       9932789       0721580827       /       /         16.       Alice kimeu       22380359       0720109452       /       /         17.       Stella Lilian       32379254       0708631694       /       /         19.       Boniface mbuvi       0273554       0722254018       /       /         20.       Oscar Kitoo       14455559
7. Christine muema         19502168         0725719668         /         /           8. Eve Michael         20749448         0715697361         /         /           9. Francis muli         22744955         0719554079         /         /           10. Farida mutisya         31043650         0710670695         /         /           11. Benjamin munyoki         24613527         0728599964         /         /           12. Jedida muema         22287373         0710913073         /         /           13. Jeniffer mueni         20063908         0723107301         /         /           14. Patrick muteta         35949986         0716015529         /         /           15. John K. Malombe         9932789         0721580827         /         /           16. Alice kimeu         22380359         0720109452         /         /           17. Stella Lilian         32379254         0708631694         /         /           18. Stanely nguve         11209943         0721679043         /         /           19. Boniface mbuvi         0273554         0722254018         /         /           20. Oscar Kitoo         14455559         0723536370         /         /
8.       Eve Michael       20749448       0715697361       /         9.       Francis muli       22744955       0719554079       /         10.       Farida mutisya       31043650       0710670695       /         11.       Benjamin munyoki       24613527       0728599964       /         12.       Jedida muema       22287373       0710913073       /         13.       Jeniffer mueni       20063908       0723107301       /         14.       Patrick muteta       35949986       0716015529       /         15.       John K. Malombe       9932789       0721580827       /         16.       Alice kimeu       22380359       0720109452       /         17.       Stella Lilian       32379254       0708631694       /         18.       Stanely nguve       11209943       0721679043       /         19.       Boniface mbuvi       0273554       0722254018       /         20.       Oscar Kitoo       14455559       0723536370       /         21.       Muli malombe       0572641       0723357834       /
9. Francis muli       22744955       0719554079       /         10. Farida mutisya       31043650       0710670695       /         11. Benjamin munyoki       24613527       0728599964       /         12. Jedida muema       22287373       0710913073       /         13. Jeniffer mueni       20063908       0723107301       /         14. Patrick muteta       35949986       0716015529       /         15. John K. Malombe       9932789       0721580827       /         16. Alice kimeu       22380359       0720109452       /       /         17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /       /         19. Boniface mbuvi       0273554       0722254018       /       /         20. Oscar Kitoo       14455559       0723536370       /       /         21. Muli malombe       0572641       0723357834       /       /
10. Farida mutisya       31043650       0710670695       /       /         11. Benjamin munyoki       24613527       0728599964       /       /         12. Jedida muema       22287373       0710913073       /       /         13. Jeniffer mueni       20063908       0723107301       /       /         14. Patrick muteta       35949986       0716015529       /       /         15. John K. Malombe       9932789       0721580827       /       /         16. Alice kimeu       22380359       0720109452       /       /         17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /       /         19. Boniface mbuvi       0273554       0722254018       /       /         20. Oscar Kitoo       14455559       0723536370       /       /         21. Muli malombe       0572641       0723357834       /       /
11. Benjamin munyoki       24613527       0728599964       /         12. Jedida muema       22287373       0710913073       /         13. Jeniffer mueni       20063908       0723107301       /         14. Patrick muteta       35949986       0716015529       /         15. John K. Malombe       9932789       0721580827       /         16. Alice kimeu       22380359       0720109452       /       /         17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /       /         19. Boniface mbuvi       0273554       0722254018       /       /         20. Oscar Kitoo       14455559       0723536370       /       /         21. Muli malombe       0572641       0723357834       /       /
12. Jedida muema       22287373       0710913073       /         13. Jeniffer mueni       20063908       0723107301       /         14. Patrick muteta       35949986       0716015529       /         15. John K. Malombe       9932789       0721580827       /         16. Alice kimeu       22380359       0720109452       /       /         17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /       /         19. Boniface mbuvi       0273554       0722254018       /       /         20. Oscar Kitoo       14455559       0723536370       /       /         21. Muli malombe       0572641       0723357834       /       /
13. Jeniffer mueni       20063908       0723107301       /         14. Patrick muteta       35949986       0716015529       /         15. John K. Malombe       9932789       0721580827       /         16. Alice kimeu       22380359       0720109452       /         17. Stella Lilian       32379254       0708631694       /         18. Stanely nguve       11209943       0721679043       /         19. Boniface mbuvi       0273554       0722254018       /         20. Oscar Kitoo       14455559       0723536370       /         21. Muli malombe       0572641       0723357834       /
14. Patrick muteta       35949986       0716015529       /         15. John K. Malombe       9932789       0721580827       /         16. Alice kimeu       22380359       0720109452       /       /         17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /       /         19. Boniface mbuvi       0273554       0722254018       /       /         20. Oscar Kitoo       14455559       0723536370       /       /         21. Muli malombe       0572641       0723357834       /       /
15. John K. Malombe     9932789     0721580827     /       16. Alice kimeu     22380359     0720109452     /       17. Stella Lilian     32379254     0708631694     /       18. Stanely nguve     11209943     0721679043     /       19. Boniface mbuvi     0273554     0722254018     /       20. Oscar Kitoo     14455559     0723536370     /       21. Muli malombe     0572641     0723357834     /
16. Alice kimeu       22380359       0720109452       /       /         17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /       /         19. Boniface mbuvi       0273554       0722254018       /       /         20. Oscar Kitoo       14455559       0723536370       /       /         21. Muli malombe       0572641       0723357834       /       /
17. Stella Lilian       32379254       0708631694       /       /         18. Stanely nguve       11209943       0721679043       /         19. Boniface mbuvi       0273554       0722254018       /         20. Oscar Kitoo       14455559       0723536370       /         21. Muli malombe       0572641       0723357834       /
18. Stanely nguve       11209943       0721679043       /         19. Boniface mbuvi       0273554       0722254018       /         20. Oscar Kitoo       14455559       0723536370       /         21. Muli malombe       0572641       0723357834       /
19. Boniface mbuvi       0273554       0722254018       /         20. Oscar Kitoo       14455559       0723536370       /         21. Muli malombe       0572641       0723357834       /
20. Oscar Kitoo       14455559       0723536370       /         21. Muli malombe       0572641       0723357834       /
21. Muli malombe 0572641 0723357834 / /
22. Maggie john 14457178 0726435069 / /
23. Nyamai vuva 20318419 0728629501 / /
24. Patrick muthui 22628765 0790116310 / /
25. Petronilla Mutua 22421191 0721324572 / /
26. Cecelia musyoka 20633050 0724085393 / /
27. Rachel muthengi 247770519 0723054725 / /
28. Rosa muema 20833481 0712832845 / /
29. Monica Dominic 13094887 0710940143 / /
30. Pauline kamuiru 12960402 0757819001 / /
31. Edwin muia 32705101 0741060821 / /
32. Sara mutual 30245210 0727523410 / /

# Kwa Mutonga Ward

S/N	NAME	ID	Mobile	GENDER		GENDER AGE	
				М	F	Below 35	Above 35
1.	Norah Kithome	13590833	0724546627		/		/
2.	John mutisya	20999335	0728024763		/		/
3.	Patrick m. kitiva	22194819	0711929562	/			/
4.	Raphael K. Mbiu	6220900	07216683263	/			/
5.	Paul kasimu	12960402	0757861625	/			/
6.	Peter nzioka	3714505	0713152652	/			/

7.	Michael kimanzi	11354237	0713166607	/			/
8.	Esther ngau	12719026	0700693744	,	/		/
9.	Angelina Muthanga	1177703	0729677855		/		1
10.	Grace k. ngui	0273706	0726919595		/		/
11.	Sabina mutia	317923	0704463687		/		/
12.	Kamene kingoo	11858138	0721613507		/		/
13.	Regina katilo	3672455	0713388472		/		/
14.	Benedict nguthu	3457132	0729142764	/			/
15.	James mutembei	27457688	0729013289	/		/	
16.	Benard muthombe	1737827	0711298213	/			/
17.	Nickson kimanzi	25550960	0727066766	/			/
18.	Pastor james mulwa	22023560	0727223582	727223582 /			/
19.	Richard mulwa	232877648	0724788053	/		/	
20.	Richard mungola	27799021	0714823257	/		/	
21.	Veronica muinde	2018201	072080854		/		/
22.	Jacinta nzioki	9276090	0722350548		/		/
23.	Edward mutual	1163965	0721689333	/			/
24.	Nzomo mitau	0273812	0723453500	/			/
25.	Laureen Tabitha	28875501	0791343886		/	/	
26.	Grace Kilonzo	11208507	0720404099		/		/
27.	Caroline musyoki	27310120	0700384635		/	/	
28.	Catherine kamanda	28531839	0721624336		/	/	
29.	Richard mwanzia	25946249	0714823257	/			/
30.	Paulina kalungu	12960402	0757819001		/	1	
31.	Esther kavinya	13178190	0700693744		/		/
32.	Virginia kilui	25817071	0717445610		/		1

### Mulango Ward

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1.	Annah Ndambuki	21735999	0722845677		/		/
2.	Felistus john	12962834	0726560497		/		/
3.	Ziporah kiasa	20834929	0714650444		/		/
4.	Asael abel	27972412	0718583279	/		/	
5.	Denis mutual	22949832	0722216760	/			/
6.	Moses kikungu	2122123	0718902390	/			/
7.	Eunice Mutua	29665851	0718614881		/	/	
8.	Phoebe kamwaki	36691319	0794507176		/	/	
9.	Dorothy wambua	22468838	0727513076		/		/
10.	Kalungu nzau	23997060	0725705276	/			/
11.	Sherry Syokau	26693127	0768824485		/		/
12.	Rhoda nguthu	21947280	0718093741		/		/

						1	
13.	Musangi nzuki	10586876	0700337869		/		/
14.	Mary k. mwaniki	1150233	0713214301		/		/
15.	Robert masika	0270879	0113954913	/			/
16.	Jeremiah mwanza	29555451	0742080658	/		/	
17.	Kiema Muthanga	2572827	0717034162			/	
18.	Wiclif Fundi	11640648	0728932869	/			/
19.	Nduku Kitheka	10878443	0726084736		/		/
20.	Godwin musembi	13444267	0727485959	/			/
21.	Griffin Kameta	24516619	0728129853	/		/	
22.	Gabriel mutual	22947442	0720981029	/			/
23.	Gedion Mwangangi	22520993	0728506979	/			/
24.	Paul muthoki	6821823	0724005740	/			/
25.	David muasya	682486	0721668556	/			/
26.	Jacinta museo	29589215	0757334354		/		
27.	Nicodemus mwanzia	2491774	0723659311	/			/
28.	Kikungu Mutunga	2122123	0718902390	/			/
29.	Cosmas Mwanzia						

#### Miambani Ward

S/N	NAME	ID	Mobile	GEN	DER	AGE	
				М	F	Below 35	Above 35
1.	Boniface K. Malii	23814726	0723061996	/			/
2.	Elijah Mutua Miwa	262555135	0711423002	/		/	
3.	Felix Mutemi	20029115	0721952527	/			/
4.	John Masila	22585300			/		
5.	Joseph Kilonzi	10434143	0723796294	/			/
6.	Jackson Ngandi	28036352	0705765195	/		/	
7.	Rose M. Mati	21174567	0721519617		/		/
8.	Bostina Nzungo	7004046	0726909996		/		/
9.	Patrick Munyoki	20165258	0724537022	/			/
10.	Ann Mwanzia	24795158	0712669317		/		/
11.	Frida K. Kavindu	28912416	0724527953		/	/	
12.	Muema Kilonzo	6536829	0740718247	/			/
13.	Gabriel Ivui	11859397	0728467382	/			/
14.	Beatrice Makasi	7417907	0715314939		/		/
15.	Anna Musyoka	23811620	0706480880		/		/
16.	Kavula Daniel	25660471	0700444799		/		/
17.	Gilbert Wia	14457668	0727731339	/			/
18.	Meshack Musyoka	31582523	0710928566	/		/	
19.	Juliana K. Kyaliwa	36492682	0705739156		/	/	
20.	John Mwangangi	8990194	0706333007	/			/
21.	Shadrack Mwaniki	21859655	0724920773	/			/

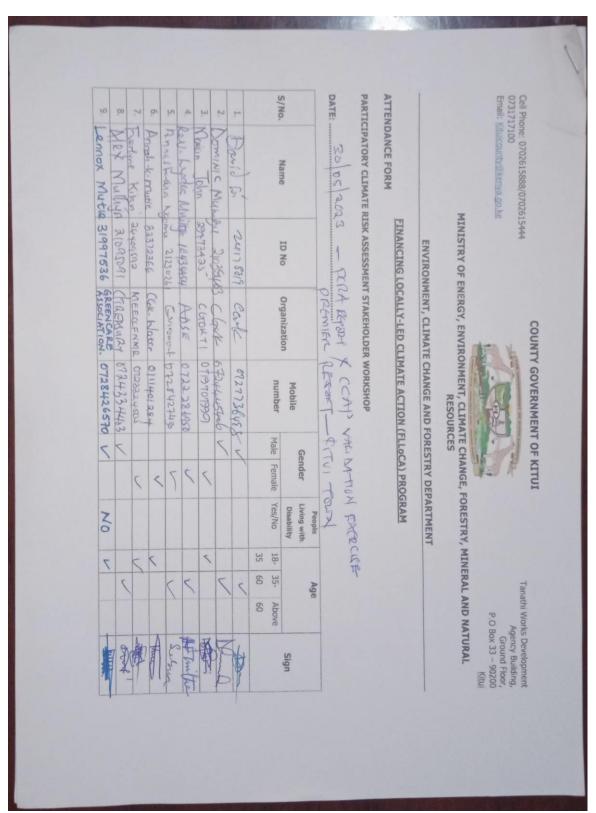
22.	Felistus Mbaluka	32865227	0703094700		/	/	
23.	Marcos Kyunuve	13782292	0723943719	/			/
24.	Petronila Ngui	13095837	0721586286		/		/
25.	Benjamin kitavi	21735507	0721171185	/			/
26.	Jacob Mburu	22440823	0724607135	/			/
27.	Daniel Kiema	14698707	0758574243	/			/
28.	Nicodemus Mwanzia						
29.	Jacinta Museo						
30.	Cosmas Mwanzia						

#### **Endau Malalani Ward**

S/N	NAME	ID	Mobile	GEN	IDER	AGE	
				М	F	Below 35	Above 35
1.	William mwanzia	1666921	0726128705	/			/
2.	Ezekiel mweu	3715332	0714005755	/			/
3.	Aaron s. Munyu	6814662	0724987934	/			/
4.	Geofrey malombe	371294	0720343924	/			/
5.	Joshua K. Makau	9073802	0712378501	/			/
6.	Malii Kiema	12644853	0716541176	/			/
7.	Esther Nzumbi	11276940	0702722418		/		/
8.	Agnes B. muli	3693886	0721384939		/		/
9.	Jacob Muthembwa	13592117	0726437389	/			/
10.	Michael Mbuvi	11277426	0722943634	/			/
11.	Elijah M. Kisilu	1737648	0741657140	/			/
12.	Joel Muthui	29419964	0715651720	/		/	
13.	Mwikali Kyule	14458548	0710537762		/		/
14.	Paul Musili	31721135	0712550899	/		/	
15.	Cynthia Sera	22405182	0704152758		/	/	
16.	Paul Mwaniki	27310271	0729676541	/		/	
17.	Sammy Mulimui	27937112	0719346977	/		/	
18.	Angeline Musilu	26382197	0711888108		/		/
19.	Mulwa Katee	10095930	0745242740	/			/
20.	Daniel M. Kisovi	12631736	0700224507	/			/
21.	Rev. Nicholas Musili	21888417	0723805305	/			/
22.	David M. Wambua	20631400	0701815454	/			/
23.	Raphael M. Kimanzi	24343777	0719248958	/			/
24.	Nzilu Syengo	11050028	0741046237	/			/
25.	Nduku Vulunza	32459816	0718526086		/	/	
26.	Chris Wambua	36080188	079154817	/		/	
27.	Dominic Muasya	23239569	0795364061	/			/
28.	Priscah Mutie	21930747	0725046475		/		/
29.	David M. Nzomo	24949787	0110577113	/			/

30.	Daniel M. Kisovi	12631736	0700224507	/		/
31.	Nicodemus Mwanzia					
32.	Jacinta Museo Ngui					
33.	Cosmas Mwanzia					
	Musee					

Annex 5: Validation workshop participants



Scan wiit Fast Sca

S/No.		10.	11.	12.	13.	14.	15	16.	17.	18.	20	2	-	-									
Name		Charles Kynty	Keivis	MIRIAM	Jacus	不		Nemarca Paul	Charles Wood	8. Firedrick Know		21.	22.	23.	24.	25.	26.	27.	28.	29.	30,	31.	32.
ID No		12689666	129846296	-		Si 4835646		3	Transles I	VERTER W													
Organization		CGOK-AGRIC		Acres 1	Environment	KC50met	-	3	10000	Sand													
Mobile	number	900000000000000000000000000000000000000	CARITY KIN 0711175484	0726834667	959334354	0722656723	07316H28	0743674162	Sphrigad	J. 1878													
Gender	Male Female	7	7	7	<	(	7	<	7	<													
People Living with Disability	ile Yes/No																						
	35		7	1	7			<		=													
Age	60	7				(	9			5													
	Above 60					1																	
Sign		D. IT	本。	THE STATE OF THE S	1 A	ion	7	XXX	1	7													

Annex 6: Validation workshop group photo

