# **COUNTY GOVERNMENT OF VIHIGA**



# DEPARTMENT OF ENVIRONMENT, ENERGY AND NATURAL RESOURCES AND CLIMATE CHANGE

# **Participatory Climate Risk Assessment Report**

(A Pilot PCRA in Partnership with the National Treasury under the FLLoCA Program)





**Cover Pictures: Communities undertaking Participatory Climate Change Risk Assessment in July 2022** 

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# **FOREWORD**

The effects of climate change are manifested in Vihiga through delayed onset of the rains, erratic rainfall patterns and prolonged dry spells. These affects livelihoods upon which many residents depend such as crop failure and post-harvest loses, increased frequency of insect pests, which leads to reduced agricultural productivity. Increase in disease vectors such as mosquitoes also presents a huge burden on human health through diseases such as malaria. Impacts of climate change in the county are by anthropogenic activities such as unsustainable exploitation of natural resources, degradation of water catchment areas and deforestation.

For the county to efficiently address the impacts of climate change, a coordinated approach anchored within a legal framework has to be embraced. In line with Kenya's Climate Change Act, 2016 and the National Climate Change Action Plan, 2018-2022, the County Government of Vihiga enacted The Vihiga County Climate Change Policy 2022-2027, The Vihiga County Climate Change Fund Act, 2019 (Amended 2021). Based on the Act, the County Government dedicates 2% of her budget into a fund for climate change response.

For Participatory Locally-Led Climate Action, governance structures have been established at ward and county level. They include: The Vihiga County climate change steering committee comprising of County Executive Committee Members of line departments and other stakeholders. Chaired by the governor the steering committee provides strategic leadership to county's climate response. The Vihiga County Climate Change Planning Committee (comprising of the county directors and chief officers from climate change line departments) is established to provide technical co-ordination for climate action. In addition, the Ward Climate Change Planning Committees in all the 25 wards are established and trained to facilitate community-led climate action planning and implementation. All these structures are coordinated by the Directorate of Climate Change which coordinates implementation of the county's climate change programs.

This Participatory Climate Change Risk Assessment (PCRA) is an approach that enables

communities to identify the climate change hazards, their impacts and propose practical solutions

for evidence-based county Climate Change Action Planning and implementation. The approach

provides information regarding historical, current and future climatic scenarios and evaluates

their implication to livelihood systems while examining the existing drivers of vulnerability.

PCRA aims to inform the most effective sector-specific strategies to strengthen the community's

resilience against the identified climate hazards. This first PCRA process is a pilot supported by

the National Treasury and the Financing Locally Led Climate Action (FLLoCA) Program and is

one of the requirements for accessing County Climate Resilience Investment (CCRI) Grants

under FLLoCA.

Based on the findings of the PCRA process, the County Government of Vihiga shall prioritize

strengthening climate change governance framework, mainstreaming climate change activities

into all sectors and strengthening capacity to monitor and report climate actions across the

sectors both at the county level and at ward level. Furthermore, enhancing climate information

services and early warning systems shall be prioritized to reduce the impacts of climate change

among the communities in the county. The County shall also prioritize to upscale implementation

of climate resilience projects with emphasis on restoration of degraded ecosystems,

strengthening livelihoods through climate smart agriculture, soil and water resources

conservation, water storage and distribution.

Guided by the PCRA, a Climate Change Action plan shall be developed to give specific

guidance on the response to the identified climate impacts. Through collaborative and

coordinated climate action, Vihiga County seeks to achieve Sustainable Development Goals,

contribute towards attainment of Kenya's Vision 2030, contribute towards Nationally

Determined Contributions (NDCs) and foster socio-economic development for improved

livelihoods of the residents of Vihiga.

Hon. Dr. Wilber K. Ottichilo, (E.G.H)

Governor, Vihiga County

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**ACKNOWLEDGEMENTS** 

The Participatory Climate Risk Assessment process(PCRA) was piloted in Vihiga County with

the financial support of the World Bank through the National Treasury under Financing Locally

Led Climate Action (FLLoCA). The success of this PCRA piloting was enabled by the goodwill

and guidance of H.E. the Governor of Vihiga County, Dr. Wilber K. Ottichilo. The Chief Officer,

Department of Environment, Energy, Natural Resources and Climate Change, and the Vihiga

County Directorate of Climate Change provided the necessary coordination which enabled the

successful implementation of the PCRA process. The National Treasury's FLLoCA Program

Implementation Unit (PIU) provided technical and substantive inputs to the implementation of

the PCRA process. I particularly appreciate Mr. Victor Orindi for providing the technical

guidance that enabled the success of this piloting.

The International Institute of Environment and Development (IIED) is highly appreciated for

their role in developing the PCRA guidance templates upon which the process was anchored.

The County Government of Vihiga's Geospatial Technology Services unit greatly supported the

process.

I highly appreciate the PCRA Technical working group, which included representation from the

County departments of Environment, Agriculture, Water, Public Health, Economic Planning and

Lands. The Civil Society organizations such as Anglican Development Services in Western, and

Sustainable Organic Farming Development Initiative (SOFDI) are also appreciated for their

participation in the community engagements.

Lastly, I acknowledge the active participation of communities in the identification and

prioritization of Climate Change issues in their wards which informed the preparation of this

document.

Hon. Ann Desma Chilande

**CECM - Environment, Water, Energy Natural Resources and Climate Change** 

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#### **EXECUTIVE SUMMARY**

The Vihiga County Participatory Climate Change Risk Assessment (PCRA) was carried out between April and December 2022. The objective of PCRA is to guide the county in the identification of the climate risks and hazards with their associated impacts in order to inform climate change action planning; integration of climate issues into the County Integrated Development Plan (CIDP) and the National Climate Change Action Plan. The PCRA is also one of the conditions for accessing the Climate Resilience Investment Grant from the National Treasury's Financing Locally Led Climate Action, (FLLoCA). The PCRA report documents prevalent climate risks, sources of vulnerability and the prioritized adaptation response actions.

The process of implementing the PCRA process involved: Formation and training of the Technical Working Group, stakeholder's analysis and mapping, community engagements at ward level, collection of historical, current and projected data of local climatic patterns, socio-economic conditions and vulnerability analysis, conducting county level workshop on climate change risk assessment as well as final report writing.

The Climate Risk Assessment revealed that about 70% of the residents of Vihiga primarily depend on low-input rain fed agriculture, and with the frequent changes in rainfall patterns, most households that depend on agriculture are exposed to the impacts of climate change. Furthermore, women constitute the highest sector (60% household and 40% hired) portion of laborers in the agricultural (ASDSP,2014) which further makes them more vulnerable to the effects of climate change. Impacts of climate change are compounded by human activities such as: cultivating on sloppy areas, overstocking, overgrazing and unsustainable exploitation of natural resources.

The main climate hazards identified in the county are prolonged dry spells, erratic rainfall patterns, flash floods, emerging pests, vector borne diseases and noxious weeds, environmental degradation (soil erosion, gully erosion, destruction of water catchment, landslides), and hailstones. Lightning was also experienced in some areas. For each season, episodes of extreme rainfall have been observed as indicative of risk of floods and flash floods as well as destruction of crops have become more common.

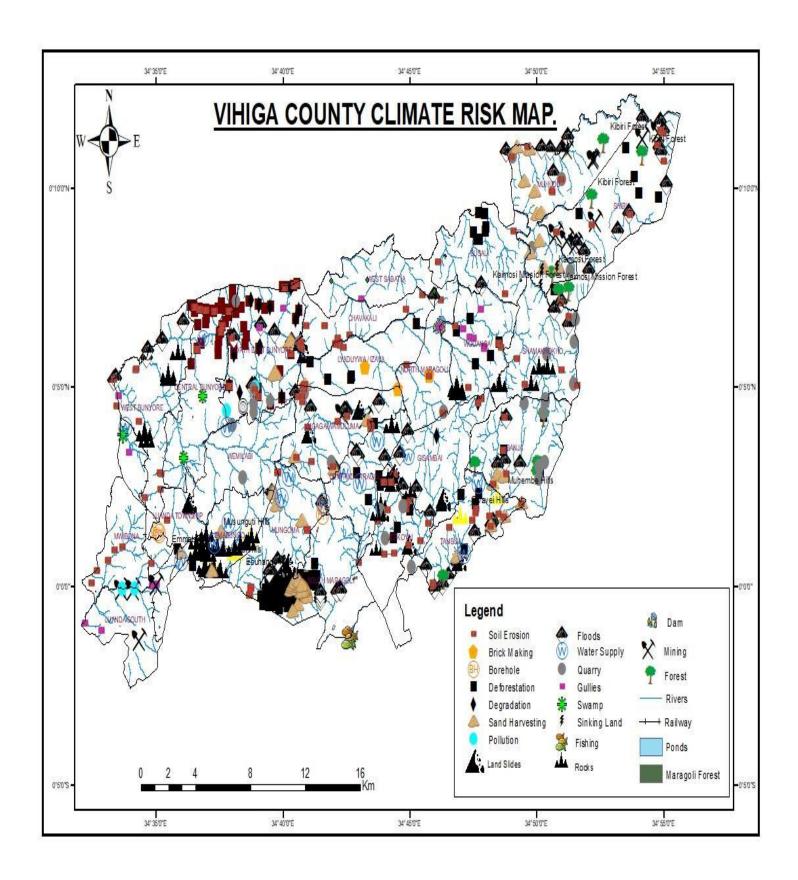
The total annual rainfall trends depicted a decrease, which will continue in the future (2020-2040) for the long rainy season, while the short rainy season will be characterized by enhanced rainfall. For both seasons, projections show an increase in rainfall for the period 2041-2060. The annual mean temperature trends show temperature increase for both seasons in the past and in the future. The short rainy season will remain slightly cooler (KMD, 2020), whereas the number of consecutively dry days occurring within a season are about one week and are likely to increase which is an indicator of low precipitation.

Impacts of climate hazards such as soil erosion, landslides, rock falls and gully erosions are more common in sloppy areas of the County in Emuhaya, Vihiga and Hamisi Sub countries and mostly in Hamisi Sub County (Tambua and Jepkoyai),. The Maragoli Hills slopes are exposed to soil erosion and rock falls due to steep slopes and human activities. Homes and Farmlands near water sources were also vulnerable to floods and flash floods resulting from instances of excess rainfall.

Impacts of climate change in the various sectors were identified and response actions prioritized. Adaptation strategies for water sector include conservation and restoration of water catchment areas and wetlands, promotion of rain water harvesting, afforestation, improved drainage and Integrated water management sources and their catchment areas as well as investment in climate resilient water storage and reticulation infrastructure. In agriculture, identified strategies include promotion of climate smart agriculture, diversification of livelihoods, strengthening extension services, soil and water conservation and regulation of human activities in riparian areas. Other strategies in Agriculture include integrated pest and disease management to be achieved through establishing crop pest and disease surveillance and capacity building and promotion of insurances.

Prioritized response strategies for environmental conservation include: afforestation and reforestation, protection of fragile ecosystems, awareness raising, capacity building and storm water storage. County physical planning was proposed to be undertaken to guide settlements and land use for optimize (optimum) returns on land resources. Storm water control and conservation infrastructure was proposed as promotion of clean and renewable energy at both institutional and household level.

Strategies proposed for addressing climate related disaster risks include: development of Early Warning Systems and enhancing dissemination of weather/climate information, strengthening disaster risk management planning and institutional framework, contingency planning and capacity building, strengthen response capacity, pest surveillance, strengthening extension services and resource mobilization as well as installation of lightening arrestors in strategic public institutions.



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## **DEFINITION OF TERMS**

Climate Change in the climate system that is caused by significant changes in the

concentration of greenhouse gases due to human activities, and which is in addition to the natural Climate Change that has been observed during a

considerable period.

Adaptation Adjustment in natural or human systems in response to actual or expected

climatic stimuli or their effects, which moderates harm or exploits

beneficial opportunities.

Adaptive capacity Ability of systems, institutions, humans, and other organisms to adjust to

potential damage, take advantage of opportunities, or respond to

consequences.

Global warming Observed or projected gradual increase in global surface temperature. It is

one of the consequences of Climate Change.

Greenhouse gases Gases that absorb and emit radiant energy within the thermal infrared

range. The main GHGs measured in a GHG inventory are, carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), per-fluorocarbons (PFCs), hydro-fluorocarbons (HFCs), sculpture hexafluoride (SF6) and nitrogen

tri-fluoride (NF3).

Mitigation Human interventions to prevent or slow down atmospheric GHG

concentrations by limiting current or future emissions, and/or enhancing

potential sinks for greenhouse gases.

Resilience Capacity of social, economic and environmental systems to cope with a

hazardous event, trend, or disturbance.

Vulnerability Propensity or predisposition to be adversely affected. It encompasses

sensitivity or susceptibility to harm, and lack of capacity to cope and

adapt.

# LIST OF ACRONYMS AND ABBREVIATIONS

ADSW Anglican Development Services Western

ALVs African Leafy Vegetables

CBOs Community Based Organisations

CCAP Climate Change Action Plan

CCF County Climate Change Fund

CCRI County Climate Resilience Investment

CFA Community Forest Association

CGV County Government of Vihiga

CIDP County Integrated Development Plan

CSA Climate Smart Agriculture

CSO Civil Society Organizations

DNMP Division of National Malaria Programme

ECDE Early Childhood Development Education

GIS Geographical Information Systems

HHs House Holds

ICT Information and Communication Technology

KCB Kenya Commercial Bank

KFS Kenya Forest Service

KIHBS Kenya Integrated Household Budget Survey

KMD Kenya Meteorological Department

KWS Kenya Wildlife Services

MAM March, April and May

MD Managing Director

mm Millimeters

NDCs Nationally Determined Contributions

NEMA National Environment Management Authority

OND October, November and December

PCRA Participatory Climate Risk Assessment

PWD Persons with Disability

SHGs Self Help Groups

SOFDI Sustainable Organic Farming Development Initiative

TVET Technical and Vocational Training Colleges

USD United States Dollars

WG Working Group

WRA Water Resources Authority

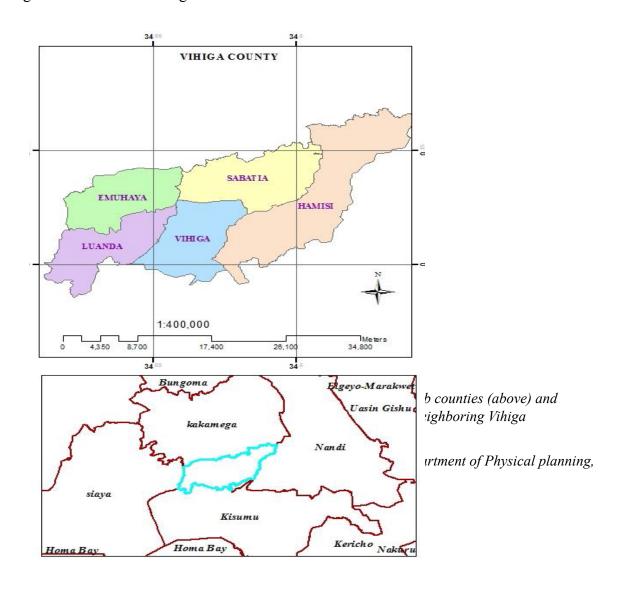
WRUAs Water Resource Users Association

# CHAPTER ONE: BACKGROUND AND CONTEXT

# 1.1 Background of Vihiga County

#### 1.1.1 Position and Size of Vihiga County

Vihiga County is located in the Lake Victoria Basin in the Western Kenya region. It lies between longitudes 34°30' and 35°0' East; latitudes 0° and 0°15' North. The county borders Nandi County to the East, Kisumu County to the South, Siaya and Kakamega Counties to the West and North respectively. The County covers an area of 563.7 km² and has five Sub Counties namely: Emuhaya, Hamisi, Luanda, Sabatia and Vihiga. The County Fact Sheet is annexed for more details concerning the background and Context of Vihiga. The position of the five sub counties and the neighboring counties is shown in figure 1 below.



#### 1.1.2 Socio-Economic Characteristics

The main economic activities in Vihiga county are small scale subsistence farming, cottage industries, tea farming, wholesale and retail trade, quarrying and artisanal mining. The overall poverty index for Vihiga County is 38.6 %t (KIHBS 2015-16) against the national index of 33.4 percent. The food poverty index is estimated at 30.2 %, while extreme poverty is estimated at 7.6 %for the County.

# 1.1.3 Energy, Transport, Infrastructure and ICT

Energy Infrastructure and ICT sectors are critical enablers of development and are indicators of climate change resilience. The county has 1,058.2 km of road network with paved roads making up 16.6 per cent of the road network. Bitumen, gravel and earth surface covers a length of 201.5, 373.7 Km and 483 km, respectively. Urban and rural households' access to electricity is at 12 % and 7.0 %, respectively while firewood (at 82 %) constitutes the main source of cooking fuel. These points to the need for investing in clean energy as well as enhancing rural electrification programme (Vihiga CIDP 2018-2022).

# 1.1.4 Education and literacy

Vihiga County has a literacy rate of 82.1 %, slightly higher than the national literacy rate of 81.5 %. The number of primary schools is 475, Early Childhood Centres (ECDEs) are 852, Adult learning centres 107 and technical and vocational training centres (VTCs) 35 and one University - Kaimosi Friends University (Vihiga CIDP 2018-2022).

#### 1.1.5 Agriculture

The average farm size in the county is 0.4 ha for small scale and 3 ha for larger farms. 98.7 % of the arable land is under farming, mostly subsistence, while 1.3% is under housing. The main cash crop grown in the county is tea which is under 1,530 Ha. Food crops grown include maize, beans, bananas, sweet potatoes, and vegetables produced under rain-fed agriculture. The main livestock kept include Zebu Cattle and cross- breeds of dairy cattle. Aquaculture is taking root in the county with about 1200 fish ponds (Vihiga CIDP 2018-2022)

#### 1.1.6 Health Services

The County has one referral facility, 18 health centers, 32 dispensaries and 34 private and mission-based facilities. The major causes of morbidity are cancer, malaria, HIV/AIDS related

illness, upper and respiratory infections and accidents. HIV prevalence rate is 4.7 %compared to the national 5.7 %, whilst malaria prevalence rate is 33.4 %. Malnutrition among children is manifested by 14.8% being underweight, 28.4 % stunting and 2.6 %wasting (Vihiga CIDP 2018-2022).

#### 1.1.7 Water, Environment and Natural Resources

Households' access to piped water is at 2.8% while 53.1% rely on protected springs. The area under forest cover is 12%. The average volume of solid waste generated annually is 30,000 tonnes and there exists a huge potential for re-afforestation and afforestation, expanding water supply and sustainable waste management.

### 1.1.8 Youth gender sports and culture

The number of children with special needs in Vihiga County is approximated to be 443 males and 422 females. There are 29,553 PWDs, 1 correctional/rehabilitation facility, 5107 registered Women groups, 2657 youth groups and 7192 SHGs.

There exist two cultural centres in the County namely: Mungoma caves and Nganyi Shrines and 6 community resource centres. Social safety programmes by the County include distribution of Agricultural seeds and improved dairy breeds, free maternal and infant health services, bursaries and scholarship programs.

### 1.1.9 Trade, Industry, Mining and Tourism

The county boasts of a wide range of natural resources such as granitic rocks, gold deposits, sand and murram. Artisanal gold mining, sand and murram harvesting are practiced in the county. Feasibility for establishment of a granite factory is in progress. There are 146 trading centres in the county, 30 hotels and restaurants, 7 tourist attraction sites, 1 tourist class hotel and 1 factory. The unique and diverse landscapes in the county present a huge potential for tourism activities.

## 1.2 Policy Context

The Paris Agreement was adopted in 2015 with aim to strengthen the global response to climate change by keeping a global temperature rise this century below 2 degrees Celsius above

pre-industrial levels. The agreement provides the policy framework at global scale within which countries are expected to address climate change through facilitating climate finance, technology exchange and collaborations for capacity exchange. The Agreement requires counties to set and periodically report their NDCs for effective tracking of climate action at national and global scales.

At the national level, the National Climate Change Framework Policy (2018) and the Climate Change Act, 2016, guides climate response actions. The Act provides for the development, management, implementation and regulation of mechanisms to enhance climate change resilience and low carbon development for the sustainable development in Kenya. To achieve these, the act establishes governance structures (Climate Change Steering Committee and the Directorate of Climate Change) and guides climate change action planning. The Act is currently under review to provide a framework for exploration of carbon markets. A fund for climate change is established under Section 25 of the Act. National Climate Change Action Planning is undertaken in a 5-year cycle. Part IV (Section19) of the Act requires county governments to mainstream climate change in performance of their functions,

This PCRA Process is anchored on the Vihiga County Climate Change Policy 2022-2027. Section 5.1.2.2 of the policy provides that the County shall undertake Climate Change Action Planning, Risk Assessment, Vulnerability Assessment and Adaptation planning for effective implementation of climate actions. Furthermore, The Vihiga County Climate Change Fund Act, 2019 (Amended 2021) guides county climate change budgeting and governance. The Act commits the County Government to set aside 2% of the County Budget into a special fund; specifically to be used for climate change programs coordination and implementation. Hence this climate change risk assessment will form a basis for evidence-based climate response.

# 1.3 Purpose of the PCRA Report

The Participatory Climate Risk Assessment report identifies major climate risks, sources of vulnerability and priority adaptation actions to address the identified risks. Through the PCRA process, communities identified climate change hazards in their wards, impacts of the hazards and prioritized response actions for documentation and incorporation into the county Climate Change Action Plan (CCAP) and the County Integrated Development Plan (CIDP). PCRA is also one of the

conditions for accessing the Climate Resilience Investment Grants from the National Treasury's Financing Locally Led Climate Action, (FLLoCA). Climate change programs and projects by various actors including government agencies, Civil Society Organizations (CSOs) and Private sector in the county shall be guided by the county climate change action plan to be developed based on this report. Therefore, PCRA is a basis for locally-led climate change action planning.

# 1.4 The Vihiga County PCRA Process

As described in the PCRA guide, and summarized in Table 2, the PCRA was implemented through 8 main steps. These are: Formation of the technical working group; training of the technical working group; mapping of stakeholders; preparation for community engagements; conducting participatory risk assessment at ward level; preparation of ward level risk assessment reports; data analysis and preparation for county level multi-stakeholder workshop; multi-stakeholder climate change risk assessment workshop and final report writing as detailed in the section below:

**Table 1: PCRA Process** 

Step	Activity	Duration (Days)
Step 1:	Constitution of the TWG	2
Step 2:	Step 2: Training of the Technical TWG	
Step 3: Stakeholder Mapping 1		1
Step 4: Preparation for Community Engagements		3
Step 5:	Ward Based engagements on PCRA	15
Step 6:	p 6: Data Analysis and Preparation for County Level Workshop on PCRA 10	
Step 7:	tep 7: County Level Workshop on PCRA 3	
Step 8:	PCRA Report	21
Total Number of days		58

# Step 1: Creation of the Technical Working Group

With a membership of 11 members drawn from diverse Sectors, the County Chief Officer in Charge of Climate Change constituted the technical working group (TWG) in April 2022 through appointment. Considerations for appointment to the technical working group included: representatives of climate change related sectors such as environment, water, agriculture and gender. In addition, individual's commitment to create time for the project, knowledge, skills and

experiences relevant to the task among others was also considered. Those appointed to the committee included the county directors and technical officers in charge of Climate Change, Technical and Vocational Education, Gender and Social Services, Crops Development, Livestock Production, Public Health, Water and Sanitation. The County Director of Meteorology and a Civil Society Organizations (CSOs) representative were also incorporated into the technical working group.

This technical working group was supported by a consultative group which provided guidelines throughout the entire process. The wider group had membership drawn from the Ward Climate Change Planning Committees, County Disaster Management Unit, Economic Planning, County Climate Change Steering Committee and County Climate Change Planning Committee, National Government agencies such as National Environment Management Authority and Kenya Meteorological Department, Members of the Civil Society organization, academia and members from the communication and finance departments.

# Step 2: Training of the Technical Working Group

The TWG was trained for three days on the PCRA process. The training involved understanding of the process, its relevance in development planning and implementation and how each step of the PCRA process should be conducted as described in the PCRA guidance templates. The training was coordinated by the director in charge of climate change, an expert from the national treasury supporting the process and a climate change practitioner from a CSO in Makueni.





**Picture: 2.1**: Training of the Technical Working Group in Vihiga in May 2023.

# Step 3: Stakeholder Identification and Analysis

The stakeholders were identified by the TWG during the training session. They broadly identified Individuals/organizations formally responsible for climate action and building resilience, those involved in climate action and responses to climate impacts; those with knowledge and expertise relevant to climate adaptation and building resilience and community representatives and those impacted by climate change. Table 2 below summarizes the analyzed list of stakeholders.



Picture 2.2: Task Team Consultative meeting to identify stakeholders

Table 2: Stakeholder mapping and analysis summary

High Influence, Low Interest	High Influence, High Interest
<ul> <li>Commercial Banks (KCB, Equity Bank)</li> <li>Chief Officers - (Water &amp; Sanitation; Gender, Youth, Culture and Sports; Physical Planning, Lands and Urban Development; TVET, Transport and Infrastructure)</li> <li>County Directors: TVET, Social Services, Finance Disaster Management, Transport and Infrastructure)</li> </ul>	<ul> <li>CECM –Environment, Water, Energy and Natural Resources</li> <li>Chief Officer (C.O) –Environment, Energy and Natural Resources</li> <li>County Directors: Climate Change; Environment, Energy and Natural Resources; Meteorological Services; Public Health; Crops Development, Economic Planning; GIS; Water and Sanitation; Public Participation; and Social Services</li> <li>Vihiga County Climate Change Planning Committee</li> <li>Civil Society Organizations (ADA Consortium, ADS Western, Nature Kenya,)</li> <li>Kenya Forests Service and Kenya Wildlife Service</li> <li>National Environment Management Authority (NEMA)</li> <li>Vihiga Municipal Board</li> <li>County Environment Committee (CEC) members</li> </ul>
Low influence, Low Interest	Low Influence, High Interest
Communication Officers	Environment officers
Secretarial staff	Sub County Water Officers     Word Climate Change Planning Committees
	<ul> <li>Ward Climate Change Planning Committees</li> <li>Members of Academic and Research Institutions (e.g. Kaimosi</li> </ul>
	University, Kibabii University, Masinde Muliro University)

Facilitators of scientific and statistical information processing and management such as the GIS team, the Meteorological, Social and County Planning Departments were also considered. The stakeholder analysis was conducted to categorize the stakeholders based on their interest in climate action and of their interest and influence over climate action implementation processes.

### Step 4: Preparation for ward level engagements

Using local radio stations, the Climate Change Unit sensitized the citizens about the upcoming climate change risk assessment exercise while the ward administrators mobilized participants. Given the small geographic area of the county, the TWG adopted a process where the wards were engaged in clusters of 2-3 wards per venue per day giving consideration to proximity to each other as well as common climate change challenges. The identified community participants were mobilized through the office of the respective ward administrators and the ward climate change planning committees. Programs, engagement tools and other materials relevant to the community engagements were prepared in advance. These materials include: the program, community guiding questions and the note takers feedback forms. The technical working group took 3 days to prepare for ward level engagements.

# Step 5: Engagement of Communities at Ward Level on PCRA

An average of 15-20 participants were mobilized from each of the wards in line with the mobilization criteria stated above. For effective deliberations, 15 participants or slightly less were found to be a more ideal number for group discussion while 25 were too many to accord majority an opportunity to participate. In addition to the members of the Ward Climate Change Planning Committees, the mobilized participants consisted of people with varied livelihoods such as farmers and traders, marginalized, youth and PWDs. Other participants included ward agriculture officers, ward administrators, foresters and other technical officers with ward level mandate.

In the first session of the community meetings, all the 2-3 wards clustered were jointly taken through an introduction session. The introduction session covered the significance of the PCRA process, overview of climate change trends followed by explanation of the process and its application in the county planning and development cycle. The participants were then segregated into their respective wards where member of the technical team and note taker was assigned. The process took one cluster per day and it took the Technical WG 15 working days to cover all the 25 wards. The process was slowed down by the 2022 general elections and the subsequent transition processes in the county.

The community engagement meetings started by sketching climate hazards and community assets map. Thereafter, the climate change risk assessment tools were administered to determine the main hazards, prioritize them, identify vulnerabilities, local response actions and propose adaptation strategies. The outputs of this process were identified and prioritized key climate change risks and hazards and their respective response measures.

# Step 6: Data Analysis and Preparations for County Level Participatory Climate Change Risk Assessment

The information gathered from the wards was processed using the GIS software and presented in reports depicted risks in both spatial and attribute data, capturing the main hazards and prioritized actions per ward and at the sub county level. This was followed by one-day meeting of technical committee to develop the workshop program and share responsibilities among team members as well as agree on the workshop execution strategy. The County Director for Meteorology prepared an overview presentation on historical, current and projected climate scenarios for the county while

the County Director for Economic Planning prepared presentation on the socio-economic status of the county. The Directors in charge of Geographic Information System and Climate Change jointly prepared the prevalent climate hazards and their geographic distribution in the county. A concept for the workshop was then developed which detailed the background of the exercise, objectives, program and list of invitees.

# Step 7: County Level Workshop on Participatory Climate Change Risk Assessment

A 3-day workshop was held from 12<sup>th</sup> to 14<sup>th</sup> October 2022 aimed at validating the findings from the wards and have the multi-stakeholders incorporate their views into the Vihiga County PCRA process. The workshop had 55 participants who included the PCRA Task Team, government officers from relevant line departments such as water, agriculture, environment, climate change and public health; representatives of Civil Society Organisations implementing climate change related projects; academia; community representatives among others.

During the workshop, the participants were introduced to the general overview of the county followed by the current and projected climate change scenarios. This presentation was followed by identification of climate change hazards, which was compared to the hazards that had been prioritized by the wards and followed by updating the hazard maps from the wards. The participants prioritized the hazards, response measures as well as drivers of climate change vulnerability. The wards were clustered into sub-counties due to similarity of livelihoods pursued as well as for exchange of knowledge.



Picture 3: County Level Workshop on PCRA process

# Step 8: Participatory Climate Risk Assessment Report

The team developed a participatory climate risk assessment report by consolidating the information gathered throughout the risk assessment process. It took about 1 month cumulatively to develop a draft report, which was consolidated by the director in charge of climate change. The technical expert contracted by the national treasury provided the necessary backstopping and review of the report until final draft was developed.

## CHAPTER TWO: VIHIGA COUNTY CLIMATE HAZARD PROFILE

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

Vihiga's climate is characterized by two distinct rainy seasons: long rains which falls between March, April and May (MAM), and short rains falling between October, November and December (OND), respectively amounting to between 1700mm and 2000mm annually, (Sagero et.al. 2018). The MAM rainfall has a decreasing trend while OND had an increasing trend (Wakachala et al. 2015).

The main climatic hazards in Vihiga County are erratic rainfall patterns, prolonged dry spells, excess rainfall especially for the short rainy season, and increased prevalence of pests, diseases and invasive species. In addition, hailstorms and lightning have increased in frequency and intensity. Historical monthly temperatures in Vihiga show that January is the hottest month while July is the coldest (Figures 3&4). The long rains season (March- May) is slightly wetter than the short season with projected general increase in rainfall. (Vihiga County Climate Risk Profile, 2021).

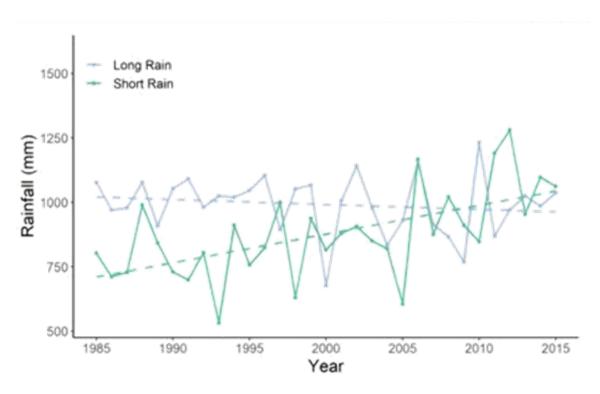


Figure 2: Long rainy season' and 'Short rainy season' Historical Trends (KMD, 2021)

The spatial variation in rainfall and temperature in the county is minimal due to the small geographical area of the county. The current climate supports a variety of crop farming such as tea as a cash crop albeit on smallholder farms while maize and beans are grown mainly for subsistence. Other crops grown are bananas and horticultural crops such as African leafy vegetables (ALVs) and kales. Livestock rearing in the county include chicken, goats, sheep and cattle on small scale.

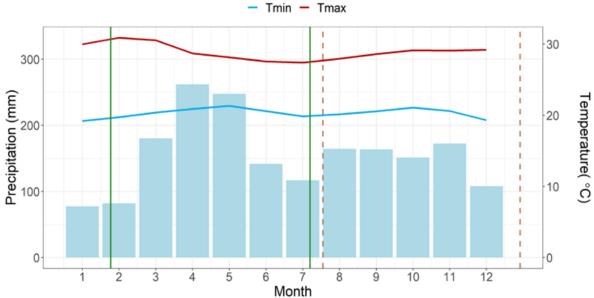


Figure 3: Historical mean monthly temperature and precipitation in Vihiga County, (KMD 2021)

Historical mean monthly temperature and precipitation (average 1985-2015) in Vihiga County. Bars represent mean monthly precipitation, whereas red and blue lines represent maximum and minimum mean monthly temperatures, respectively.

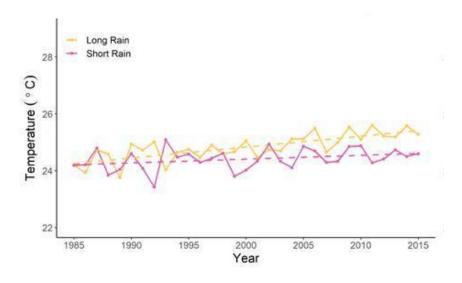


Figure 4: Annual mean temperature trends for the long rainy and short rainy seasons in Vihiga in the past (1985-2015), (KMD,2021)

### 2.1.2 Precipitation and temperature trends in Vihiga county

In generating this profile, we assessed past trends and future projections of precipitation and temperature, and predicted related hazards from these two variables. These hazards included extreme hydrological events like flash floods, droughts, moisture stress, heat stress, and changes in the start and length of the growing seasons.

From the meteorological data and interactions with communities, trends relating to rainfall and temperature were:

- The start and end dates of the rainy season have been changing and becoming less regular across the county leading to shifts in the start of the growing season. For each season, heavy precipitation events of extreme rainfall for at least 5 consecutive days were recorded which is indicative of risk of floods and flash floods.
- The total annual rainfall trends showed a decrease of the precipitation in the past which will continue in the future (2020-2040) for the long rainy season. During the short rainy season, the rainfall will increase. In both cases, projections show an increase in rainfall for the period 2041-2060. The annual mean temperature trends show an increase of temperature for both seasons in the past and in the future. The short rainy season will remain slightly cooler (KMD 2020).
- The number of consecutively dry days occurring within a season, are about one week and are likely to increase which is an indicator of low precipitation.

The annual mean temperature has been generally rising from 24°C historically to 26°C and this increase is for both seasons resulting from the global warming.

# 2.2 Exposure and vulnerability profiles of the county

The main climatic hazards in Vihiga County are erratic rainfall patterns, prolonged dry spells, increased pests and diseases. Temperatures have generally increased while hailstorms have increased in frequency and intensity. The effect of these hazards include: floods and flash floods, soil erosion, reduced soil fertility, environmental degradation, increased pests and disease, landslides, increased number of continuous dry days within rainy seasons.

Vulnerability is determined by the people's livelihoods and the resources available to enable them cope with the hazards or their impacts. Several factors compound the impacts of climate change and variability, and at the same time curtail communities' abilities to cope with these impacts: reductions in agricultural land area, declining soil fertility, eroded soils, and environmental degradation caused by cultivating on steep slopes, high input costs, and poor marketing systems.

The PCRA process identified the following groups as the most vulnerable to climate hazards: -

# i Households that depend on Rain fed Agriculture for livelihoods

About 70% of the residents of Vihiga primarily depend on low-input rain fed agriculture, and with the frequent changes in rain patterns most households that depend on the agriculture are exposed to the impacts of climate change. Furthermore, women are the highest portion of laborers in the agricultural sector (60% household and 40% hired) (ASDSP, 2014) which further makes them more vulnerable to the effects of climate change. Unsustainable agricultural practices such as cultivation of sloppy areas, overstocking and overgrazing particularly expose the communities depended on agriculture to climatic shocks. The vulnerable groups do not have equal access and control over important resources such as land due to cultural beliefs that bars women and children from owning family assets.

In particular, youth, PWDs and women are more vulnerable to climate change due to delays in the onset of rains, post-harvest losses, increased pests and diseases. There is generally low investment in irrigation within the county which compounds the vulnerability of the aforementioned groups dependent on crop farming. Livestock farmers on the other hand suffer reduced productivity due to seasonal reduction in fodder and water for livestock during dry seasons.

### ii Small scale traders

The main business activities in Vihiga are small scale traders dealing in household merchandise, cereals, vegetables and fruits. Seasonal variability in supplies of agricultural produce affects traders; in addition, infrastructure destruction during heavy rains affects transportation of goods.

#### iii. Households with low levels of income

Poverty is the first proxy indicator of vulnerability mainly affecting the elderly, PWDs, youths and women. Approximately, 39% of the population in Vihiga County live below the poverty line (less than USD 1.90/day), ranked 36<sup>th</sup> nationally in terms of poverty (Vihiga CIDP, 2018-2022).

Firewood is the main type of cooking fuel in Vihiga County, utilized by 84% of households as compared to 55% nationally. For lighting, 38% of households in Vihiga County primarily use electricity, as compared to the national average of 50%, while 28% of households in Vihiga use paraffin lamps. These high poverty levels make most residents in the county vulnerable to impacts of climate hazards.

## iv. Households and farmland in sloppy areas

Impacts of climate hazards such as eroded soils, landslides, rocks fall and gulleys are more common in sloppy areas. The wards in Hamisi Sub County such as Tambua and Jepkoyai are particularly more vulnerable to landslides. Community members who include women, youth and the elderly bordering such fragile ecosystems were more exposed to erosion due to the steep slopes and human activities. Those residing on hill slopes and other steep slope areas such as Maragoli Hills are exposed to soil erosion and rock falls. Homes and farmlands near water sources are also vulnerable to floods and flash floods resulting from episodes of intense rainfall.

#### v. Rural households depended on springs and streams

More than 85% rural households in Vihiga depend on springs and wells for water whose yield exhibit significant seasonal variability. During prolonged dry season, the overall yields of water in these sources drastically reduce leading to time wastage and conflicts. This mainly affects women and children in the society. During periods of excess rainfall, the overall quality of water in these sources drastically declines due to sedimentation, with springs being more affected. It also results to pollution and contamination of water bodies leading to increased cases of waterborne diseases among children and the elderly. The rural households depend more on agricultural activities for livelihoods as compared to urban households hence making them more vulnerable to the impacts of climate change.

# vi. PWDs depending on agriculture

PWDs who depend on farming and small scale businesses are affected by the effects of climate change such as prolonged dry spells which results to poor health and increased cost of treatment among these groups. The effects of Climate change also lead to food insecurity and low income resulting to low nutrition and socioeconomic status among these groups.

# 2.3 Differentiated impacts of climate hazards and risks

Projected climatic trends indicate that Vihiga County will receive enhanced rainfall during the short rain season and reduced rainfall during the long rains season. Consecutively dry days within and between rainy seasons are expected to increase by an average of 5 days suggesting a marginal increase in incidences of prolonged dry periods with likelihood of crop failure and reduced quantities of water from natural sources. The maximum number of running rainy days will average 5 days which indicates risks of floods, flash floods, destruction of infrastructure and crops.

Increase in disease vectors such as mosquitoes affect children, the expectant mothers, the elderly and the terminally ill are more due to lower levels of immunity hence predisposed to contract malaria more than the rest of the population. Reduced quality of water also affects the mentioned categories to water-borne diseases and their vulnerability is likely to worsen in the future.

The elderly and Persons with Disabilities (PWD) were found to be more vulnerable to reduced water in springs as physical limitation barred them from competing for the resource in the periods of reduced yields. It was also noted that destruction of infrastructure during periods of excess rainfalls paused more challenges for the PWDs in terms of mobility.

Reduced quantities of water in springs affects women more because culturally, women bear the responsibility of fetching water, for their families and carrying out cleaning chores. As water in the springs and wells declines during periods of prolonged dry periods, women take more time on queues at water points. For cultural reasons, most women have no rights towards ownership of the land resources that limits the extent to which they can make decisions concerning investment on land.

#### 2.4 Spatial Distribution of Risks

Vihiga County has five sub counties namely Emuhaya, Hamisi, Luanda, Sabatia and Vihiga; with total of 25 wards. The spatial distribution of climate hazards across the sub counties is determined by the prevailing landscape formation and the human activities. Due to the small geographical size, there are very minimal spatial variations of climate hazards across the county. This section outlines the climate risks and their impacts per ward across the 5 sub counties of the County.

# 2.4.1 Emuhaya Sub County

Emuhaya Sub County comprises of three wards namely Central Bunyore, North East Bunyore, and West Bunyore. Figure 6 below shows the spatial distribution of climatic hazards in Emuhaya Sub County. The main climatic hazards prevailing in Emuhaya are: erratic rainfall, intense hailstorms, increased crop pests and diseases. As a result of the climatic hazards, shortage of pasture, crop failure, low yields in the farms, reduced quantities of water are frequently experienced.

Crop pests such as locusts and army worms have become more common. On the other hand, prevalence of malaria and water borne diseases are on the rise with approximated 70% of the population being at risk (Division of National Malaria Programme - DNMP 2021). Soil erosion in the Sub County is rampant which leads to reduced agricultural productivity, destruction of infrastructure, increased cost of farming and siltation of rivers. Heavy rains lead to flooding in low lying riverine areas, whereas growing of eucalyptus trees in water catchment areas have compounded the challenge of water shortage.

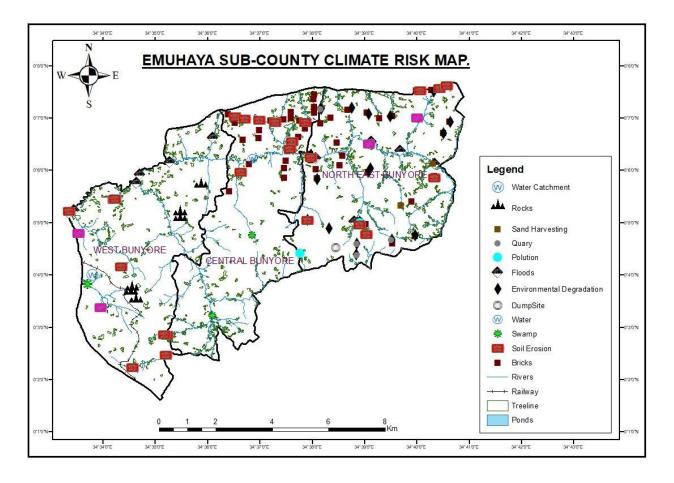


Figure 5: Emuhaya Sub County Climate Risk Map

Source: GIS Unit, Vihiga County, 2022.

# 2.4.2 Hamisi Sub County

Hamisi Sub County has seven wards namely: Banja, Gisambai, Jepkoyai, Muhudu, Shamakhokho, Shiru and Tambua. Figure 7 below shows the distribution of climatic risks and their impacts in Hamisi. The main climate change hazards in the sub county include: Erratic rainfall patterns which adversely affects agricultural productivity and cause post-harvest losses. Incidences of excess rainfalls leads to floods in the lower sides of Shamakhokho ward as witnessed in Mwasavatia and Saosi in Kisasi sub location. Dry seasons have also become prolonged which leads to stresses on water sources.

Crop pests and diseases, such as fall army worms and African fall army worms are prevalent from the year 2013. The pests are usually controlled using traditional approaches, with some farmers using modern/commercial approaches. Inadequate early warning system and low levels of understanding appropriate response mechanisms hinders response against the pests. Human disease causing vectors such as mosquitoes are responsible for increased prevalence of diseases such as malaria. On the other hand, diseases associated with extremes temperatures such as pneumonia during cold seasons, respiratory diseases caused by dust during dry seasons; and crop failure such as tea have been recorded.

Landslides, resulting from human activities such as quarrying activities, artisanal mining, cultivation on slopes are also common in the wards such as Tambua.



Plate 1:A Gulley erosion near Shamakhokho in Shamakhokho Ward (2022)



Plate 2: (b) Artisanal gold mining in Muhudu Ward (2022).



Plate 3: A landslide in Tambua Ward (2021)

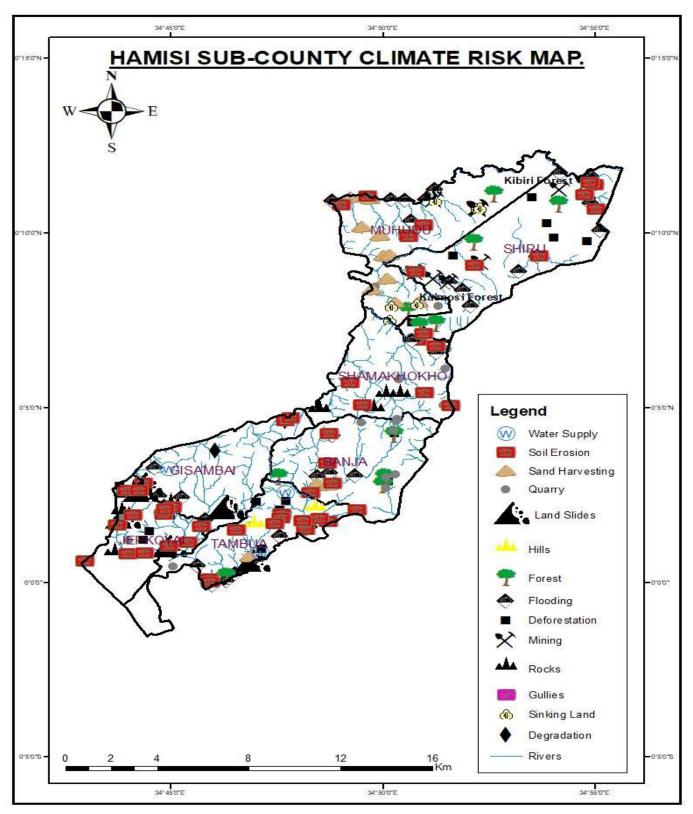


Figure 6: Hamisi Sub County Climate Change Risks and Hazard Map.

Source: GIS Unit, Vihiga County, 2022.

#### 2.4.3 Luanda Sub County.

Luanda Sub County has five wards namely: Emabungo, Luanda Township, Luanda South, Mwibona and Wemilabi. Figure 9 shows the distribution of climatic risks and their impacts in Luanda Sub-County. The main climatic risks in Luanda Sub County are: Erratic rainfall patterns, increased number of consecutive dry days before and during rainy seasons, increased frequency and intensity of hailstorms (particularly in Wemilabi Ward) and increased number of rainy days in the short rain season. Water sources have reduced in quantity and quality, associated with climate risks such as prolonged dry period and human activities such as growing of eucalyptus in water catchment areas and unsustainable sand harvesting. Emabungo Ward was particularly more exposed to landslides due to huge prevailing gulleys while Wemilabi Ward had a high shortage of water due to fewer and less yielding sources.

Human activities like deforestation have led to loss of biodiversity and destruction of habitats as seen around Ebusiekwe Hills in West Bunyore ward. Destruction of vegetation cover along river banks have led to increased riverbank erosion, gulley erosion, flooding and siltation in the rivers.

Delay in onset of long rains and prolonged dry season have led to delayed planting, reduced water quantities (in springs, rivers and streams), crop failure (fig 8a) and insufficient pastures. Lightning is also common in the sub county especially in Wemilabi wards. These climate related challenges are aggravated by poor agricultural practices.



Plate 4: A failed Maize crop



Plate 5: a fall army worm infested maize stalk in South Bunyore, LuandaSub County, Picture May 2022

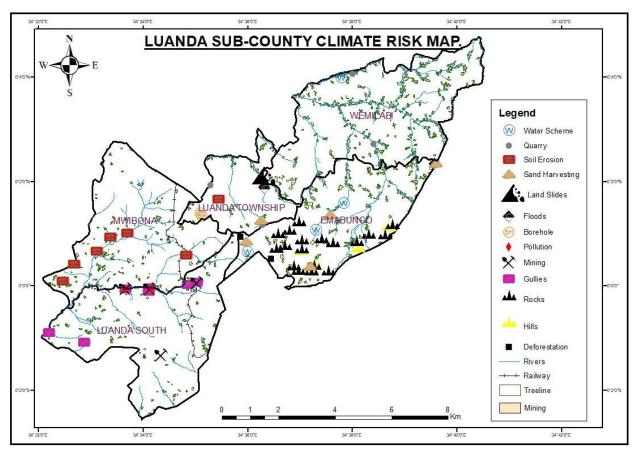


Figure 7: Luanda Sub County Climate Risks and hazard Map Source: (GIS Unit, Vihiga County, 2022.)

#### 2.4.4 Sabatia Sub County

Sabatia Sub County consists of six wards namely: Busali, Chavakali, North Maragoli, Izava/Lyaduywa, West Sabatia and Wodanga. Figure 10 shows the distribution of climatic risks and their impacts in Sabatia Sub-County. The climate risks dominant in Sabatia Sub County are: delayed onset of long rains which affects agricultural calendar, rainfall received during long rain season has drastically reduced as compared to the short season whose rainfall quantities has increased which leads to destruction of infrastructure and flooding in farmlands. Wetlands have greatly reduced due to climatic stresses and human interference such as encroachment and growing of eucalyptus around water catchment areas. Soil erosion is rampant around the quarries, sloppy areas, farms and mining sites, which has led to water pollution. Emerging pests have increased, leading to low crop productivity and increase in vector borne diseases such as malaria.

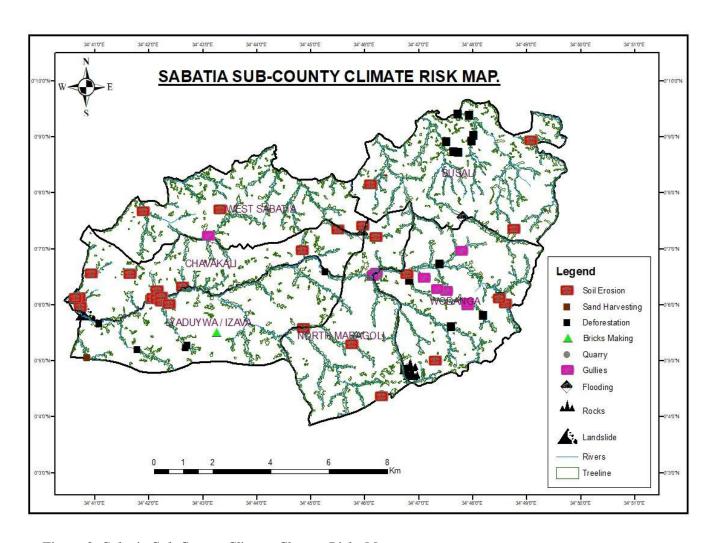


Figure 8: Sabatia Sub County Climate Change Risks Map

**Source:** GIS Unit, Vihiga County, 2022.

#### 2.4.5 Vihiga Sub County

Vihiga Sub County is comprised of four wards namely: Central Maragoli, Lugaga Wamuluma, Mungoma and South Maragoli. Vihiga's Sub Sounty's main climate risks and hazards (Fig. 11) are erratic rainfall patterns and increased intensity of the rainfall especially during the short rains. Increased intensity of the rains coupled with human activities such as sand harvesting and deforestation have increased soil erosion and consequently reducing soil infertility and formation of gulleys, resulting to reduced crop productivity. This increase in rainfall intensity has contributed to increased incidences of flooding and vector borne diseases such as malaria. Climate hazards are compounded by human activities such as deforestation and cultivation in

fragile areas as is the case with Maragoli Hills in Mungoma and South Maragoli Wards (Fig. 11 b).

There is observed increase in temperature extremes with high temperatures resulting to increase in crop pests leading to low crop productivity. There are also incidences when temperatures fall too low thus increasing incidences of human diseases such as pneumonia.



Plate 6: Gulley erosion



**Plate 7:** Degraded Maragoli Hills Forest, South Maragoli Ward 2022

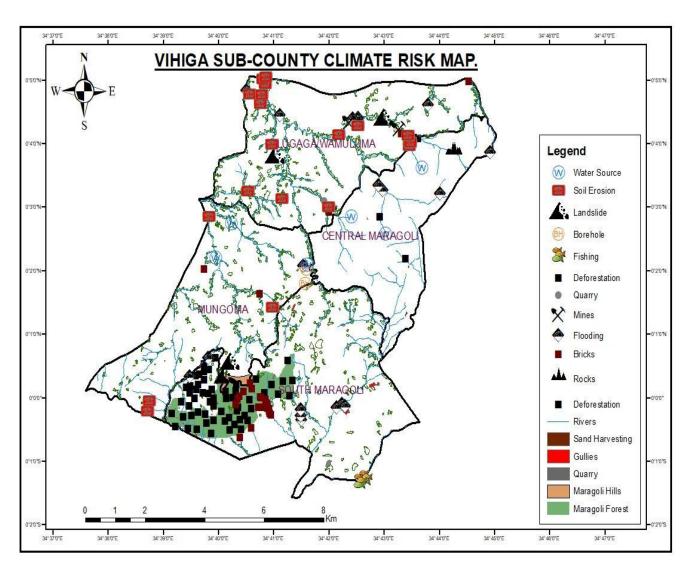


Figure9: Vihiga Sub County Climate Change Risk Map

Source: GIS Unit, Vihiga County, 2022.

## CHAPTER THREE: FUTURE CLIMATE SCENARIOS FOR THE COUNTY

#### 3.1 National and downscaled climate change projections

Vihiga County experiences equatorial climate with historical monthly temperatures ranging from 20-35°C while the annual average temperature falls between 24°C and 26°C. Due to its small size, the county does not experience a large spatial variation in precipitation and temperature. The climate supports a variety of crops and livestock. Impacts of climate change has been felt in the county as high temperatures are experienced with heavy and erratic rainfall, long dry spell that interfere with crop productivity and climate hazards like hailstorms and landslides in areas such as Maragoli Hills and Tambua Ward in rainy seasons.

Projection indicates increase in average global temperatures are expected in the next 100 years as it has been during the last 100 years. The National climate projections indicate that there will be a 1.7°C increase in average temperatures by 2050 and 3.5°C by the end of the 21<sup>st</sup> century. The number of hot days and hot nights will increase by 2050 and consequently reducing the number of cold days and nights. Rainfall is expected to increase slightly by 2050, especially for the 'short rains' which occurs between October and December. Precipitation will remain highly variable and uncertain with extreme rainfall events likely to increase in frequency, duration and intensity. The period between heavy rainfall events is likely to increase as well as the proportion of rainfall that occurs in extreme rainfall events (CIAT, 2021).

#### 3.2 County future climate scenarios

There is the likelihood of warming with average temperatures expected to continue rising. The annual mean temperature trends show an increase of temperature for both seasons in the past and in the future.

The average rainfall is expected to increase slightly by 2050 especially for the 'Short Rains'. The total annual rainfall trends show a decrease in precipitation in the past which will continue in the future (2020-2040) for the long rainy season (Figure 11). During the short rainy season, the rainfall will increase. In both cases, projections show an increase of rainfall for the period 2041-2060 (Figure 12). The precipitation will remain highly variable with extreme rainfall events likely to increase in frequency, intensity and duration.

Figure 10: Annual total rainfall trends.(KMD 2021)

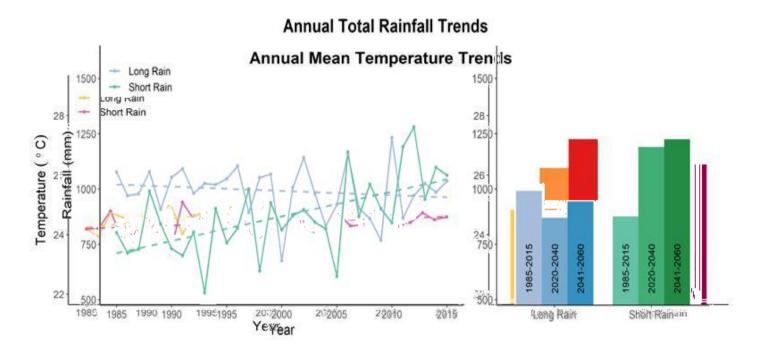


Figure 11: Annual total rainfall trends (CIAT 2021)

Annual total rainfall trends for the long rain and short rain seasons in the past (1985-2015) and in the future (2020-2040 and 2041-2060) (CIAT 2021)

Based on the projections, there is likelihood of climate hazards increasing in intensity, frequency and duration. This may have implications on the livelihoods and environment such as reduced crop yields, reduced reproduction and milk production in livestock, increased land degradation and increase in the likelihood of landslides. The interaction between human activities and climate change will alter the occurrence of hazards.

#### 3.2.1 Likely Future Impacts

The projected increase in rainfall intensity especially for the short rains season will most likely lead to more floods in the low-lying areas, increased soil erosion, gulleys and sediment pollution in water bodies. The predicted increase in temperatures will likely present a more conducive environment for breeding of disease vectors and pests and diseases hence increased pests and

diseases. The exposure and vulnerability of the key groups to these climate scenarios vary between various segments of the community as explained below:

#### i) Crop Farmers and livestock keepers:

Households who rely mostly on subsistence farming are likely to be more affected by the projected climate conditions. For example, if rainfall patterns become highly erratic and extreme rainfall events increases, it will likely negatively affect crops in the farms and timing of farm operations. Farmers in steep slopes suffer more due to increased soil infertility as a result of soil erosion which will be exacerbated by heavy rains coupled with land use changes caused by human activities. A more serious problem however may be increased incidence of new pests and diseases as a result of increase disease vectors such as mosquitoes for malaria and crop pest such as fall army worms and army warms as witnessed in the recent past. On the other, likely increase in rainfall for short season presents an opportunity for planting in the second season.

Increased temperatures will likely cause heat stress in livestock that may lead to reduced reproduction, growth rate and milk production. Livestock farmers may also suffer reduced productivity due to seasonal reduction in fodder and water for livestock during dry seasons.

#### ii) Small scale traders

Small scale traders who rely on farm produce will be affected by reduced yields. Similarly, infrastructure such as roads and bridges may be destroyed which will make it difficult for goods to reach the market.

#### iii) Women, Elderly and Children

Women will likely be affected more due to the gender roles such as responsibility for fetching water for households. Skewed lands access rights limits women's capacity to invest in land and agricultural enterprises. Old age and associated health complications hampers ability to cope with climatic hazards and their impacts. Similarly, children may likely suffer more due to high incidences of vector borne diseases such as malaria as they are yet to develop the necessary immunity to defend themselves against the diseases.

#### CHAPTER 4: EXISTING ADAPTATION STRATEGIES

#### 4.0: Introduction

This Chapter presents the strategies that various stakeholders are currently implementing within the county to address the climate related risks and hazards. Various actors including government, Civil Society organizations (CSOs) and communities have been implementing various programmes to address the impacts of climate change. Examples of such strategies include establishment and strengthening of climate change governance structures at county and community levels, capacity building and awareness raising, putting in place a legislative framework and implementation of climate change resilience investments in various wards. The strategies are aimed at supporting livelihood strategies pursued by majority of the population such as crop farming, livestock keeping, trade and artisanal mining.

#### 4.1. Overview of existing adaptation strategies and their effectiveness

The prevailing climatic hazards mainly includes erratic rainfall patterns leading to shifts in agricultural calendar, increased number of consecutively dry days which leads to drying of crops and shortage of fodder for livestock, increased episodes of intense rainfall resulting into floods, crop failure and landslides, environmental degradation leading to soil erosion and water pollution and their associated impacts.

Prolonged dry spells and erratic rainfall patterns are currently addressed by rainwater harvesting, digging of shallow wells, and fetching water from springs, streams and rivers. Sustainability of these strategies is largely hampered by reducing water in these sources. Crop rotations, small holder irrigations, cover cropping, diversification of livelihoods and intercropping are some of the strategies used in Agricultural Sector. Planting of early maturing crop varieties and drought tolerant crops such as cassavas, sweet potatoes are also practiced to evade impacts of dry spells. Indigenous knowledge and traditional weather forecasting are applied to address challenges associated with unreliable erratic rainfall especially among the Abasiekwe community in Luanda Sub County.

Adaptation strategies for environmental degradation include: reforestation and afforestation of degraded lands, community forest conservation, planting of indigenous trees, livelihood

diversification and contour ploughing. Awareness creation, capacity building, afforestation and reforestation campaigns are used to control soil erosion. Water resources are made resilient by protection of catchment areas through establishment of vegetation cover.

Pests are handled by application of ash, powder soaps and handpicking while some farmers apply commercial pesticides. Inadequate information concerning the safety of the pesticides, application procedures, equipments and cost hampers effective utilization of the commercial pesticides. Mosquitoes are addressed by use of mosquito nets and environmental sanitation. Flooding and flash floods are addressed by digging of trenches and improvement of urban drainage systems.

It was noted that some strategies are more effective in addressing the climate hazards than others, for example, land fallowing was found to be less effective given the small parcels of land in the county. Inadequate extension services also impeded adoption of climate smart agriculture practices further hampering the uptake and effectiveness of these strategies. Push and pull technology is very effective in crop pests management but has low uptake as a result of small parcels of land in Vihiga as compared to use of concoctions of pepper and soaps, whose local availability and low cost enabled widespread use.



*Plate 8*: Participatory Community Climate Change Risk Mapping for Tambua Ward



**Plate 9:** Shamokhokho Ward WCCPC and Community Reprentative During the PCRA inSeptember 2022



*Plate 10:* Vihiga County Level PCRA Multi-stakeholder workshop, 12<sup>th</sup> -14<sup>th</sup> October 2022

#### 4.2 Effectiveness of adaptation/Resilience strategies

As elaborated in Section 4.1, a wide array of adaptation strategies is employed in addressing the identified climate risks and hazards. These strategies have a varying level of effectiveness as assessed during this process. The Section presents the climate related hazards with affected livelihood system, ranked adaptation strategies and the community segment applying the strategy as well as the gender consideration in the strategy per Sub County. The ranking was done by popular ranking which considered the cost of the strategy, current frequency of use, and its technical/operation effectiveness. This was done from community consultation at the ward level; county multi-stakeholder climate risk assessment and further review and input by technical team at the county level. In order to make the adaptation strategies more effective, there is need for improved access and use of climate information; capacity building through strengthened extension services; better coordination between actors for optimal outcomes.

#### 4.2.1 Hamisi Sub County

 Table 3:
 Adaptation Strategies in Hamisi Sub County

Risk/Hazard	Livelihood/ Economic System	Ranked Climate Resilience Strategies	Stakeholder Group Applying the Strategy	Gender and Social Inclusion information
Environmental degradation such as soil erosion, gullys, landslides and destruction of water sources	<ul><li>Farming</li><li>Trade</li><li>Transport sector</li></ul>	Sustainable Land Management practices (terracing, construction of gabions), catchment conservation reforestation and afforestation of degraded lands, and support conservation of communal forest resources     Adoption of Climate Smart Agriculture (CSA) specifically early maturing and drought tolerant crops     Capacity building of the community members on soil erosion conservation mechanisms	<ul><li>CGV</li><li>CSOs</li><li>Community Members</li></ul>	Programs targets both men, youth, women & PWDs
Erratic rainfall patterns	<ul><li>Farming</li><li>Small scale traders</li></ul>	<ol> <li>Strengthen early warning systems and; access and use of Climate Information Services (CIS)Livelihood diversification</li> <li>Adoption of modern farming techniques</li> <li>Use of appropriate certified seeds</li> </ol>	<ul><li>Farmers</li><li>community members</li><li>KMD</li></ul>	strategy is gender inclusive
Prolonged dry season	<ul><li>Farming</li><li>Sand harvesting</li></ul>	Water harvesting and storage at household, community and institution level as well and on farms through trenches     Conservation of water catchment areas     Reforestation and afforestation of degraded lands	• CGV • Farmers • CBOs	women stand to benefit more from conserved water sources
Emerging pests, diseases and noxious weeds	• Farming	<ol> <li>Adoption of disease resistant crop and livestock varieties</li> <li>Spraying with agro chemicals</li> <li>Integrated pest management practices</li> </ol>	• Farmers • CGV	strategy is all gender inclusive

#### 4.2.2 Luanda Sub County

**Table 4: Adaptation Strategies in Luanda Sub County** 

Risk/Hazard	Livelihood/ Economic System	Ranked Climate Resilience Strategies	Stakeholder Group Applying the Strategy	Gender and Social Inclusion information
Reduced quality and quantity of water in catchment areas; water catchment areas degradation and farmland and infrastructure destruction	<ul><li>Farming</li><li>Trade</li><li>Transport sectors</li><li>Water supply</li></ul>	<ol> <li>Implementation of Sustainable Land Management practices (terracing, construction of gabions)</li> <li>Promote adoption of Climate Smart Agricultural practices (CSA) such early maturing and drought resistant crops,</li> </ol>	<ul><li>Farmers</li><li>Women groups</li><li>Youths groups</li><li>CGV</li><li>CSOs</li></ul>	Both men and women will be able to increase agricultural yields and address food insecurity
Erratic rainfall patterns	<ul><li>/Farming</li><li>/Small scale traders</li></ul>	<ol> <li>Strengthen climate information services and early warning systems</li> <li>Increase investment in modern farming techniques</li> <li>Capacity build the community members on Livelihood diversification</li> </ol>	• Farmers	Involvement of all community members will help to ensure that everyone is reached.
Prolonged dry season	<ul><li>Crop and livestock Farming</li><li>household</li></ul>	<ol> <li>Investment in water storage &amp; conservation or catchment areas</li> <li>Promotion of small scale irrigation</li> <li>Investment in modern farming techniques such as greenhouses</li> </ol>	<ul><li>Farmers</li><li>CBOs</li><li>CGV</li></ul>	Irrigation will benefit all genders, women benefit more from rainwater harvesting
Floods	<ul> <li>Crop and Livestock Farming</li> <li>Transport systems</li> <li>Traders</li> </ul>	Protection of water banks     Construction of water harvesting infrastructure such as pans	• Farmers	This will benefit both men and women since it will reduce soil erosion and enhance food production

#### 4.1.3 Sabatia Sub County

**Table 5: Adaptation Strategies in Sabatia Sub County** 

Risk/Hazard	Livelihood/ Economic System	Climate Resilience Strategies	Stakeholder Group Applying the Strategy	Gender and Social Inclusion information
Environmental degradation	<ul> <li>Crop &amp; Livestock Farming</li> <li>Traders</li> <li>Transport sector</li> </ul>	<ol> <li>Adoption of Climate Smart Agriculture (CSA) such as green houses, promotion of early maturing and drought tolerant crops.</li> <li>Investment in Sustainable Land Management practices (terracing, construction of gabions)</li> <li>Promotion of Soil conservation strategies</li> </ol>	<ul><li>Farmers</li><li>Women groups</li><li>CGV</li></ul>	Both men & women will be able to increase agricultural yields & address food insecurity.
Erratic rainfall patterns	<ul><li>Farming</li><li>Small scale trading</li></ul>	<ol> <li>Promotion of livelihood diversification practices such as bee keeping and other nature based enterprises</li> <li>Capacity build farmers on modern farming techniques</li> <li>Strengthen Climate information services and early warning</li> </ol>	Farmers	All the genders to benefit from the strategies
Prolonged dry season	• Farming	Construction of water reservoirs and water storage infrastructure     Promotion of small holder irrigation     Promotion of modern farming techniques	• Farmers • CBOs	This will ensure that women spend less time in search for water & invest more time in other productive activities
Floods	<ul><li> Farming</li><li> Transport systems</li><li> Traders</li></ul>	<ol> <li>Soil &amp; water conservation structures such as terraces, trenches</li> <li>Construction of water pans</li> <li>Improved drainage system</li> </ol>	• Farmers	Strategies cuts across all genders

### 4.1.4 Vihiga Sub County

Table 6: Adaptation Strategies in Vihiga Sub County

Risk/Hazard	Livelihood/ Economic System	Climate Resilience Strategies	Stakeholder Group Applying the Strategy	Gender and Social Inclusion information
Environmental degradation- soil erosion, gulleys, water catchment destruction, Landslides	<ul><li>Farming</li><li>Traders</li><li>The transport sector</li><li>Water sector</li></ul>	<ol> <li>Adoption of Climate Smart Agriculture (CSA) such as green houses, promotion of early maturing and drought tolerant crops,</li> <li>Soil and water conservation practices</li> <li>Reforestation and afforestation of degraded lands</li> </ol>	<ul><li>Farmers</li><li>Women groups</li><li>CGV</li><li>CSOs</li></ul>	Both men & women will be able to increase agricultural yields
Erratic rainfall patterns	• Farming • Small scale traders	<ol> <li>Investment in modern farming techniques</li> <li>Strengthen climate information services and early warning</li> <li>Livelihood diversification</li> </ol>	• Farmers	Strategies cuts across all genders
Prolonged dry season.	• Farming	<ol> <li>Conservation of water catchment areas</li> <li>Construction of water storage</li> <li>Promotion of climate smart agriculture</li> </ol>	• Farmers • CBOs	This will ensure that women spent less time in search for water and invest more in time in more productive activities
Floods/flash floods	<ul><li>Farming</li><li>Transport systems</li><li>Traders</li></ul>	<ol> <li>Soil erosion control</li> <li>Construction of water pans</li> <li>Rehabilitation and construction of drainage systems</li> </ol>	• Farmers	This will benefit both men & women since it will reduce soil erosion & enhance food productivity

#### 4.1.5. Emuhaya Sub County

**Table 7: Adaptation Strategies in Emuhaya Sub County** 

	Livelihood/		Stakeholder	Gender and
Risk/Hazard	Economic	Climate Resilience Strategies	Group Applying	Social Inclusion
	System		the Strategy	information
Erratic rainfall patterns	Farming     Small scale traders	<ol> <li>Capacity build the community on modern farming techniques and gardens practices</li> <li>Livelihood diversification (promotion of apiculture and aquaculture)</li> <li>Improve climate information services and early warning system</li> </ol>	<ul><li>Farmers</li><li>Women groups</li><li>Youths groups</li><li>CBOs</li></ul>	Involvement of all community members will help to ensure that all community members benefit
Prolonged dry season.	• Farming	<ol> <li>Promotion of Irrigation</li> <li>Climate smart agriculture. (promotion of apiculture and aquaculture)</li> <li>Construction of water reservoirs</li> <li>Enhance water harvesting and storage in institutions.</li> </ol>	• Farmers • CBOs	This will ensure that women spend less time in search for water and invest more in time in more productive activities
Environmental degradation	<ul><li>Farming</li><li>Traders</li><li>The transport sector</li></ul>	<ol> <li>Adoption of Climate Smart Agriculture and promotion of early maturing and drought resistant crops,</li> <li>Soil and water conservation</li> <li>(terracing, construction of gabions)</li> <li>Promotion of Soil conservation</li> </ol>	<ul><li>Farmers</li><li>Women groups</li></ul>	Both men & women will be able to increase agricultural yields and address food insecurity.
Flash floods	<ul><li>Farming</li><li>Transport systems</li><li>Traders</li></ul>	Investment in soil conservation     Promote construction of water pans and on farm water template     Setting up of disaster response unit.	• Farmers	Women shall save time used to fetch water & engage in more productive activities
Increased prevalence of pests and diseases	• Farming • Trade	<ol> <li>Investment in soil and Land Management practices</li> <li>Integrated crop pests and disease management.</li> <li>Increase investment in Pest and disease control measures</li> </ol>	<ul><li>Farmers</li><li>CFA members</li></ul>	This will enhance food security thus enhancing the economic status of both gender
Hailstorms	• Farming	1. Investment in crop insurance schemes	• Farmers	

#### CHAPTER 5: SECTOR STRATEGIC PRIORITY AREAS

As presented in Chapter 4, the major climate risks and hazards identified by stakeholders across the five Sub-Counties in Vihiga include unpredictable rainfall patterns, prolonged dry seasons, landslides, gully and soil erosion. During community consultation forums and the County Level Multi-stakeholder workshop, the climate hazards in the county prioritized at ward level were presented in the view of the current and projected climate outlook. This was followed by sector-wise identification and prioritization of the response actions for the identified climate risks. This chapter presents the prioritized strategies for addressing climate risks and their impacts in four key priority areas namely Water, Agriculture, Environment and Disaster Risk Reduction. The strategies are summarized in table 8 below.

**Table 8: Strategic Priority Areas Summary** 

a. Prolonged dry spell				
Water	Agriculture	Environment	Disaster management	
Enhance water harvesting and storage in public institutions, households and farms     Rehabilitation, protection and conservation of water catchment areas and water sources     Capacity development in water sector; application of solar energy in water supply and mobilizing resources	Promotion of climate Smart Agriculture achieved through irrigation, modern technology and early maturing and drought tolerant varieties and breeds and certified seeds.     Livelihood diversification such as apiculture and aquaculture     Strengthen extension services	Conservation and protection of water catchment areas to be achieved through afforestation & reforestation     Establishment of fruit tree nurseries & agroforestry; Supporting private and community tree nurseries with fruit trees, bamboo & indigenous tree species     Capacity building and resource mobilization	<ol> <li>Strengthening of Early Warning Systems</li> <li>Improving climate information systems.</li> <li>Scaling up and Improving existing local weather stations.</li> </ol>	
b. Intense rainfall/ er	ratic rainfall			
Rain water harvesting expand storage     promote on farm water storage & conservation	Cover Cropping,     Soil erosion control (Grass stripping, trenching, terracing, gabions among others)     On farm water storage	Increased tree planting     Establish soil & water     conservation structures	Improve climate information services	
c. Environmental des	gradation (deforestation, soil ero	osion, gully, water catchment de	estruction, Landslides)	
Water	Agriculture	Environment	Disaster management	
Promotion of water harvesting & storage     Conservation & restoration of water catchment areas     Climate proof water infrastructure & rehabilitation of existing infrastructure including promotion of clean energy in water supply	Afforestation, agroforestry & reforestation     Soil erosion control through construction of gabions terracing, grass striping and cover cropping with focus on ecosystem based solutions     Awareness, sensitization & capacity building	1. Conservation of water catchment areas to be achieved through afforestation and reforestation programs 2. Promotion of green energy e.g. biogas and solar 3. Capacity building & awareness creation on environmental conservation	1. Development & equipping of disaster response unit 2. Promote research & strengthen early warning systems	

d. Emerging pests, diseases and noxious weeds					
Water	Agriculture	Environment	Disaster management		
Nature based solutions in addressing pests to avoid nutrient pollution of water sources	<ol> <li>Strengthening crop pest and disease surveillance</li> <li>Promotion of pest resistant varieties and nature based solutions to pests</li> <li>Vaccination campaigns and extension services</li> </ol>	Promote environmentally friendly pesticides     Strengthen capacity to monitor and control use of agrochemicals	Setting up of an     Agricultural     Emergency kitty     Pest surveillance     Strengthening     extension services		
e. Flash Floods					
Storm water harvesting & storage to be achieved through infrastructure development, capacity building on best water harvesting techniques & nature based solutions     Protection of riparian zones and river banks     Afforestation and increase in vegetation cover	4. Storm water harvesting & storage to be achieved through infrastructure development, capacity building on best water harvesting techniques & nature based solutions 5. Protection of riparian zones and river banks 1. Afforestation and increase in vegetation cover	6. Storm water harvesting & storage to be achieved through infrastructure development, capacity building on best water harvesting techniques & nature based solutions 7. Protection of riparian zones and river banks 1. Afforestation and increase in vegetation cover	8. Storm water harvesting & storage to be achieved through infrastructure development, capacity building on best water harvesting techniques & nature based solutions 9. Protection of riparian zones and river banks 1. Afforestation and increase in vegetation cover		
f. Hailstorms					
No hailstorm risks were identified in water sector	Promotion of crop insurances     Agricultural enterprise     diversification     Use of agricultural nets	Capacity building of     residents on livelihood     diversification on livelihood     resources such as apiculture,     fish farming,	Strengthen early     warning system on     hailstones     Promote crop insurance     schemes		
Lightening					
		Installation of lightening arrestors in institutional buildings	Map lightning prone areas, carry out sensitization & install lightning arrestors		

#### CHAPTER SIX: CONCLUSION AND RECOMMENDATIONS

As indicated in Chapter 1, Vihiga's economy is highly dependent on rain fed agriculture, small scale trade and services, artisanal mining of sand and gold as well as exploitation of natural resources such as forests and rivers. As a result, the economy is highly exposed to climatic hazards including prolonged dry spells, erratic rainfall patterns, floods in low lying areas and emerging pests and diseases. These hazards coupled with human activities such as deforestation, unsustainable sand harvesting, encroachment of riparian zones and destruction of catchment areas further compounds the impacts on people and the environment.

Various actors including National and County Government, local communities and CSOs are already implementing a number of climate change response actions as elaborated in Chapter Four, even though the efforts are largely disjointed and currently not achieving much in terms of resilience building. Based on the consultation with diverse actors within the county (Chapter 2) and learning from these experiences, several adaptation strategies have been proposed in Chapter 5 to address the prevailing challenges. These include protection of catchment areas, promotion of climate smart agriculture, capacity building, strengthening early warning systems and strengthening disaster management institutional framework. These have to be done in a more coordinated manner while paying attention to the changing climate through use of climate information in prioritizing and designing the interventions.

**Table 9: Lessons learnt** 

Activity	Lessons learnt
Constitution of the Technical Working Group	<ul> <li>Bigger team is not necessarily more effective, a team of 7-11 was most efficient</li> <li>Formal appointment of committee members through their respective supervisors secured the requisite commitment of the team</li> <li>Inclusion of CSOs helped create synergies for efficiency</li> </ul>

Training of the Technical WG	<ul> <li>Task team has to be adequately trained for effective implementation</li> <li>Complexity of the process reduced with practical experience, a sample cohort was done during the training</li> <li>Experience sharing with Makueni helped in deepening the understanding</li> </ul>
Stakeholder Mapping and analysis	<ul> <li>The process is not as complex as anticipated in the guide</li> <li>Both county and non-county based stakeholders have real contributions towards the success of the process</li> </ul>
Community Engagements on PCRA	<ul> <li>Well trained climate change committees at ward level enabled quick understanding and execution of the process</li> <li>A concise understanding of climate risks by the PCRA task team helps in guiding the process</li> <li>Community engagement process is time and resource intensive, the one day allocation Availability was too rushed, 2-3 Days per ward would be appropriate</li> <li>12-15 members per Ward were more appropriate, An FGD provided better outcome than a baraza.</li> </ul>
Data Analysis & Prep for County Workshop	Secondary data and integration of GIS enabled better understanding and visualization of the data respectively
PCRA Report	<ul> <li>Multi-stakeholder support helped the process(Meteorology, GIS, CCU, Economic Planning)</li> <li>Focused on 4 areas: Environment, Water, Agric and DRR</li> </ul>
General Process	<ul> <li>The process is time and resource intensive, hence should be adequately budgeted</li> <li>External facilitators helped in capacity exchange and keeping the process on course</li> <li>Merge PCRA and CCCAP process; success lies in integration into county plans(CIDP, ADP, BUDGETS)</li> </ul>

From the foregoing, this Pilot PCRA report recommends that:

- 1) A Climate Change Action Plan should be developed to provide an implementation framework for the proposed adaptation strategies over the next 5 years. The action plan should focus on addressing the most common climate risks as identified in chapter three. As guided in chapter 5, the proposed actions should address the most vulnerable thematic areas which include: water, environment, agriculture and disaster risk management.
- 2) That all actors support the County Government in implementing the priority actions required to address the identified risks. Climate action implementation should take

- cognisance of the fact that some actions are more effective in addressing the climate risks than others
- 3) Capacity building of key players in the implementation of climate action should be undertaken, these includes: strengthening county climate change unit to effectively coordinate and monitor the implementation of prioritized climate change actions, enhance capacity of the County Climate Change Planning Committee and Steering for informed decision making. Across all sectors, capacity should be strengthened in order to facilitate mainstreaming of climate action across the sectors. This should be accompanied by increased capacity to track and monitor climate finances across various sectors in the county. Capacity building of the Ward Climate Change Planning Committees enables effective community-centred climate change risk assessment and action planning.
- 4) In regards to the Participatory Climate Change Risk Assessment (PCRA) process, this report recommends that:
  - a) PCRA should be promptly followed with the Participatory Climate Change Action Planning Process rather than be undertaken as separate exercises as currently proposed in the PCRA guide. This will save time and resources and enable logical flow of the process.
  - b) The one day provision for sub county/ward level engagement is not sufficient due to the onerous nature of the process. For adequate deliberations at ward level, 2-3 days were found to be adequate and 12-17 members were optimal.
  - c) PCRA process should include training of the PCRA task team which was omitted from the PCRA guidelines.
  - d) Regional blocks should provide a platform for establishing a mechanism for addressing cross-border climate risks and hazards between counties.

#### **ANNEXIA**

#### **Annex 1: References**

- 1. Climate Risk Profile: Kenya (2021): The World Bank Group.
- 2. County Government of Vihiga (2021): The Vihiga County Environmental Action Plan (2021-2026)
- County Government of Vihiga (2018): 2<sup>nd</sup> County Integrated Development Plan, (2018-2022)
- 4. Division of National Malaria Programme (DNMP) [Kenya] and ICF. 2021. Kenya Malaria Indicator Survey2020. Nairobi, Kenya and Rockville, Maryland, USA: DNMP and ICF.
- 5. Republic of Kenya, (2018), National Climate Change Action Plan (Kenya) 2018-2022.
- 6. Republic of Kenya, (2016): National Climate Change Adaptation Plan 2015 -2030
- 7. International Institute for Environment and Development (2022): Participatory Climate Risk Assessment guidelines
- 8. The Climate Change Act, 2016 (No. 11 of 2016)
- 9. The Vihiga County Climate Change Fund Act (2019) Amended 2021
- 10. The Vihiga County Climate Change Fund Regulations, 2022
- 11. The Vihiga County Climate Change Policy, 2022
- 12. The Paris Agreement, 2015

### **Annex 2: County Fact Sheet**

**Table 9: Vihiga County factsheet.** 

Informa	Information Category		National Average Statistics
COUNTY AREA:			
Total area (Km²)		563.7	580,895
Non-arable land (Km²)		126.2	304,595
Arable land (Km²)		404.8	276,300
Size of gazetted forests (Ha)		4152.9	2,585,526.44
Size of non-gazetted forests (	На)	48	-
Forest cover (%)		35.9	7.4
Approximate tree cover		14	12.13
Total urban areas (Km <sup>2</sup> )		91	7526
No. of climate change adaptat	tion projects/programs under CCF	5	-
DEMOGRAPHIC PROFIL	ES		
Total population(Census 2019	9)	590013	56807211
Total Male population (Censu	s 2019)	283678	28373750
Sex ratio (Male: Female)		926:1000	998:1000
D : (1D 1):	Mid of plan period (2025)	622746	60865303
Projected Population	End of plan period (2027)	634074	63730501
Incidence of landlessness (%)		3%	-
Percentage of farmers with tit	le deeds (%)	28.3%	-
Mean holding size (in hectare	s)	0.4	2.19 Acres
Total number of households		143,365	-
Average household size		4.2	4.32
POVERTY INDICATORS			
Absolute/overall Poverty inde	ex (%)	38.6	36.1
Hardcore Poverty (%)		7.6	8.6
Rural poverty (%)		41.3	49.1
Food poverty (% HH)		30.2	32
Overall child poverty (%)		43.2	33.7
HEALTH			
Five most common diseases	Upper respiratory Tract Infection	46	7.4
(%)	Confirmed Malaria (only Positive cases)	(24%)	15.2
	Disease of the skin	(6%)	3.9
	Dis. Of Lower Respiratory System	(5%)	21.9
	Hypertension	(5%)	2.8
	Diarrhea	5.4%	3.5
	HIV/AIDS	4.7%	5.6
	Diabetes		
AGRICULTURE, LIVESTO	OCK & FISHERIES		

Information Category		County Statistics (as at 2022)	National Average Statistics
Crop Farming			-
Average farm size (Small scale) (ha)		0.4	0.04
Average farm size (Large sca	le) (ha)	3	8.9
WATER AND SANITATIO	N		
Households with access to pig	ped water (No.)	16,941	2,914,410
Distribution of Households	Piped into dwelling	1.5	10.1
by Main Source of water (%)	Piped	2.8	14.1
(/0)	Rain/harvested	3.3	3.9
	Borehole	2.1	9.9
	Protected well	3.6	7.0
	Protected spring	53.1	7.1
	Unprotected well	0.7	2.6
	Unprotected spring	4.4	2.4
	Stream	24.8	16.8
	Water Vendor	1.0	8.5
	Dam	0.3	3.3
	Pond	0.6	1.6
	Lake	0.3	3.3
Water supply schemes (No.)		23	
Average distance to nearest w	rater point (km)	0.25	
	aw water from the nearest water	30	
No of HH access to piped wa	ter	16941	
Households with latrines	Flush toilet		
	VIP Latrine	26,365	1,433,119
	Uncovered Pit Latrine	13,039	1,132,044
	Bucket	287	96,344
	None	860	891,183
Community distribution by	Collected by local Authority	1.0	6.3
type of waste/garbage disposal (percent):	Collected by Private firm	0.1	8.8
disposar (percent).	Garbage pit		
	Burning	9.8	27.1
	Public garbage heap	0.4	2.4
	Farm Garden	10.1	8.4
	Neighborhood Community group	0.1	6.9
ENERGY			
Households with electricity c	onnection (No.)	80,000	8,600,000
Percentage of trading centers		97	
HHs distribution by main	Electricity	573	108,387
cooking fuel	Gas (LPG)	174	2,878,281
	Biogas	430	60,215
	Solar	143	24,086

Information Category		County Statistics (as at 2022)	National Average Statistics
	Paraffin	3,439	939,355
	Firewood	120,075	6,635,702
	Charcoal	8,454	1,396,990
HHs distribution by main	Electricity	55,023	6,069,680
lighting fuel	Gas (LPG)	0	24,086
	Biogas	0	0
	Solar	28,768	2,324,302
	Paraffin	12,896	830,968
	Tin lamp	40,407	1,156,130
	Fuel wood	287	337,204

**Source:** Vihiga County Department of Economic Planning, 2022

### **Annex 3:** Technical Working Group

NAME	DESIGNATION
1.	Dr. Richard Boiyo Chief Officer - Environment, Energy, Natural Resources and Climate Change
2.	Winstone Atamba County Director - Climate Change
3.	Alice Musuluve Climate change officer
4.	Godfrey Omusonga County Director - Meteorology
5.	Reuben Chumba County Director - Crops Development
6.	Washington Olando County Director – Geospatial Technology Services
7.	Solomon Omutoko County Deputy Director - Public Health
8.	Patrick Amoke Sub County Water Officer
9.	Henry S. Anjila County Livestock Production Officer
10.	Bernard Oremo County Social Development Officer
11.	Irene Obura Climate Change Officer
12.	Billy Mugami County Protocol Officer
13.	Mr. Victor Orindi Program Technical Lead
14.	Brenda Okong'o Climate Change Project Coordinator- ADS Western

#### Annex 4: Attendance lists of participants

Annex 4: Attendance lists of participants

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## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

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# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

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### COUNTY GOVERNMENT OF VIHIGA



DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES VENUE: MUMBITA CHURCH OF GOD.
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12	7.	NELLIN	JGTON NA	TELLOW	100	4266 8	5133634	- and
8	3. /1	EDWAR	D amin s	LUANDA!	1. 10918		7 20 78-21	+ VA
9	. 1	10100 1	S PIONESINE				713828555	1 1
11			TO WILLS	Lyansa =	2176	8 N C B	7450468 33	200
11:	-10	samo	Derand	1 chiggs	3176	1921 67	715105997	1
	- 15	2 ichora	Missa K	searce ?	27976	799 04	2540405	THE STATE OF THE S
12	- 5	HEM	INTILL		3451		211-11-76	The state of the s
13		ELLEN	KADESTA	LUANIDA	T 341-	1978K	24940559	MES
15	. 1/	Mitte		LUMBOA TES	20944	100	141527913	2
16.	100	1001	177	Guando	I Quia		721817085	Hallan
17.		001	chungo	planta Fam	0.1 2001	11101	25753EG/	- Laboratoria
18.					ong 246615	08 070	88342	- Late
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## COUNTY GOVERNMENT OF VIHIGA



## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE 16/09/2022

PCRA

VENUE Mumbits church of god.

				2000	Carlen	PWD	Ana		
	S/No	Name	ID	Mobile number	Gender	PWD	Age	26 70	(0 1
				F4 m	(F/M)			36 - 59	60 and
				10	49		55	1334	above 01
1	1	Rita Atieno	13229573	0724971437	2F4		01	2×2	01
V	Q.	Mars Omlyong	10916880	072595 77	М			4	
4	38	Juliet Orgoche	24918196	0715598707	F			~	
4	4	Rev. Obodiah Murayi	030000	0191378654	y				~
		Tongoi Demis	88442665	07428788	M		V		
V	6.	Hellington Nasio	10918606	011383855	М			1	200
		Oremo Bengra	27976799	0725404472	U			V.	
		Richard Misigo	3451963	072494 0559	M		/		
V	9,0	them Injili	34 179786	1741527913	M		V	-	
	10	Solomon Stang		0710775991	M			V	
			-6	-121191					
	12-								
	13. 6	Edward Amasımba	36036702	0145048833	M		V		
		Kolla Esogo willon	The second second second	0715105993	M		/		



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

S/No Name	ID	Mobile number	Gender	PWD	Age		
S/140 I Vaine			(F/M)		18 - 35	36 - 59	60 and above
13 Edith Yanga	2409971	07 28417169	K			/	
DI. I. VI	9346289	0720200614	M			V	
Jackine Aseyo	23295934	0727088500	R			V	
16 M Agg1Py Agua	9301427	0714 480 509.	M			V	
Harry Naary		0128985839	M		1	V/	-
is Amisi Bunyoh		07121898 66.	M		V		V
M Mosa Mukotu		0708263593.	M			V	
20 Diana Makungu	23298268	0724862777	F			V ,	
Trusphat Notring	11145076	071686049	M			·V	
20 Renturo andwlu	51265'19	0120186200	Fo			V	
Beatine modulo as multigs of Ambunge	110884056	018002000	M·			-	
					-		

## COUNTY GOVERNMENT OF VIHIGA



## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

VENUE VIGING Friends church. PCRA

	S/No	Name	ID	Mobile number	Gender	PWD	Age		
					(F/M)		18 - 35	36 - 59	60 and
					8 5		02	8 8	above 05
V	1.	Hezekiah Usia	0729291	0770362735	2M4		01	21	102
V		Ruth Majani	5637841	0722480158	F			1	
1	13.	Nickson Okoyo	26086831	0742613392	M		V	W	
V	4	Jydith Kiprugyt	50 2339170	6 0741208434	F			V	
V	5.	Richard Milgo	349963	0721333243	И				V
1	6.	Gement Aderi	10884686	07 22352666	N.			/	
		Eldle Yrdwpo	11140112	072471569 8	M			·V	
	1	Gladys Savara	13370793	0713828376	F			1/	
	9	sisho odondo	30732651	0711417122	M		1/	V	
-	# 1			***	143		<u> </u>		
-	10	Hanley Madya	17899479	0720973674	M				1/
	The second second	handle plando	H159071	07 23755 817	W				1/
-	13/	nakale mulka		0713029535	MAF		,	1	V
	19		C1 -C1 - 24		THE PARTY IN		1	-	
		V	-				1		

## COUNTY GOVERNMENT OF VIHIGA



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

S/No	Name	ID	Mobile number	Gender	PWD	Age		
51.10	, which			(F/M)			36 - 59	60 and above
15.	Audon Mulonga		0721710533.	W				
	Juliet Muo nga		072074 44 27	F			/	
17.	Geogrey Nyage Ruben moorne	4851500	0721285284	M		/		
18'	Geogrey Nyage Ruben, moome	0832955	0724986808	W				1
19.	honald knrongo,	6228264	072368578	W				1
20.	Alunda meneliat	1314635	0700797052.	W			1	
21	lind Nyagoha	21762214	0726 239501	f			/	
	7,0							

S. Morayor.

## COUNTY GOVERNMENT OF VIHIGA



DEPARTMENT OF ENVIRONM	ENT WATED	ENEDGE		
04.	BITT, WATER,	ENERGY (	& NATURAL	RESOURCES

VENUE: SOUTH MARKGOLI ACTIVITY: PARTICIPATORY RISLE & DATE:

#### ATTENDANCE LIST

P				ALLENDA	NCE LIST		
	NO.	NAME					
	Mile.			DESIGNATIO	N ID. NUMBER	DILONE	
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	2. U	Dist	10 1	The second	- 13370793	0713828370	
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		#621	KIN US	IN COMMORCA	2 30732681	0711417122	WWW. AL
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10	2.	Phip	7ANG1		RUKASSIII	070072324	Ce.
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13			- Pragn	10,119	23391706	D7/11/00 5	1
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	- 17	HKRY	NAMNYI	1 HUD . 11 1 - 1	9301427	0714480505	20
16.	+	to come	- D	a PIND.	JE 124133119	3728985030	Man
17	- N	10ses M	W/C=C	d. 1/2/2 .	0359114 6	71-10	10
18.	1	10	nkofu	LIVESTOCK OFFICE		712189866	01.
-19.	17	ANA	MAKUNG	III I A C acc	777	2708263593	Bull
-		S 111/	MUNDINA	Manual .	1-2-11/601	5724862777	
20.		1 CHAD!	D MISILES	Sec C.B.	110016	100989150	
21.	10	FATO	D. MISTING	Sec C.BIA	3451263	100000	fu
22.	1000	11-1-1	2 CHADU	50-A-	Cinical	0721333200	BELL S
23.	-	20141	mysinh 6	fringen	5126519	072 7mm	a de la
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24.	1	Jan 5 1	(15-6)	M. Aldun	10 884006 0	1-2500	1/11
25.		1	Lisaveo	Counts	111112	122352016	and a
26.	1				1114215 0	12421000	A
27.	+-						Charles
	-						
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DEPARTM	ENT OF ENVI	RONMENT,	WATER, ENI	ERGY & NA	TURAL RI	SOURCE.	S
VENUE:	Ta HAMA	KATHBA	P.A	·G CH	URCH .	-MAGO	0
ACTIVITY	PARTIRI	PATORT	RIS	K A	+5565 N	TEMT	- 4
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INC	O. NAME	1-2-2-2-2			
111	, IVAIVLE	WARD	ID. NUMBER	PHONE	SIGN
1	C. 2 - 3:03	0 11	1	NUMBER	1
1.	ENOS CHEGERO		7117644	0700381799	NO!
2.	PETER ADEMA	BUCALI	0289482	0721493148	- All de
3.	JOYCE ABABU	BUSALI	12973554	0723318068	ALA J
4.	MARY GORETTI	BUSAL	17547869	071481939	
5.	MOTO INGASIA		29216011	070829525	KARD
6.	TORAIZ MUHAY OHIMBY	BUSAL	30338189	0703491202	In
7.	Byrt, Elwan	Bracili	2206 2060	07 L3 78 138x	100
8.	Muhalo De	BVSel	21959192	pr3333737	
9.	Jones Ambera	Buray	14721221	0722221081	PUDO
10.	TREHLE OBURA	V- C.G	20433148	0710779776	C.
11.	Brenda Avinyi	CZO	29010713	0717112343	(Block)
12.	WINSTONE ATAMBA	CGV	28101052		(100)
13.	FRANKLINE MUGANSA	CGV		The state of the last of the l	TAL
15.		CG V	28556725		CHARLEST AND DESCRIPTION OF THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN C
	Kineon asiliana	1		0740759487	
16.	2 ebedee Mugasia	busali	7891581	67 24 43 3540	12-10
17.	ELECTIMA EMIDES	HA !	25951627	0729008264	# Dele
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CHAMAKANGA

### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

DATE OGIVEPLADAZ.

VENUE chomakanga PAG

PCRA

	S/No	Name	ID	Mobile number	Gender	PWD	Age		
					(F/M)		18-35	36 - 59	60 and
	1	Cale O Olico A	0		6 10		13	44	above 01
,	1	EMOS CHEGERO	7117644	0700381799	M.23		10	Viz	0'1
V		PETER ADEMA	02,9482	0721493148	M				/
	J	JOTCE ABABU	12973557	072331 3068	F			V	
1		MART GORETTI	12562869		F			/	
	5	JOYCE INGASIA	29216011	6708295215	F		W		
	6	GRAEL MUHANI CHIMULA.	30338189	0703491202	M	1	V		
	7	BUSILA EDWARD	2049040	0723731086-	h		V	1	
		MUH ANDO BENARD.	21959182	0723383787	No			/	
V	9	James ambiera	14721221	0722225081	W			1	
V		IRENE OBURA	30433148	0710779778.	F		1		
	11	BRINDA AKINTI	29010713	0717112343	F		1		
	13	MINISTORE NTAMBA.	28101052	0710761898	W		V.		
	13 1	PRANKLINE MUGNADA	28556725	0116099994	W		1		
L	14	FIGUR YOURAND,	28556725	0716099994	10		1		



### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGI DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

0.01	37	ID	Mobile number	Gender	PWD	Age	
S/No	Name	ID .	Modern Hamson	(F/M)		18 - 35	36 - 59
15	Helen Kadesa	80944047	0781817085	Ŕ			V
	Noel Advingo	24661308	0108336422.	F			V



### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE 09/9/2022
VENUE Chamakang pati

PCRA

	VENUE OF STANGONGS	A A STATE OF THE PARTY OF THE P	- hou	Gender	PWD	Age		
S/No	Name	ID 🚓	Mobile number	(F/M)		18 - 35	36 - 59	60 and above
No. of Concession, Name of Street, or other Designation, or other	ZEGIDEE MUGACIA! ELEGINA ENDEGNA	7391581	0727433510 .	M F			V	
		1						



DEPAR	RTMEN	T OF ENVIR	ONMENT,	WATER	, ENERGY & I	NATURAL RESC	URCES
VENUE	e: F.R	1600 v. offue	SOLL HONIEW	BE VIT	HOA MISSIL	)n)	
ACTIV	ITY:	PCRA -	HATIOHAL	TREAS	URY		••••••
DATE:		1409/20	22				
			ATTE	NDANC	E LIST		
NO. NA	ME		WARD		ID. NUMBER	PHONE NUMBER	SIGN
1. N/2	KENT	ATO A-to	COLUMN	D000000	29.582:6040	1792969981	(W)

	N	O. NAME	WARD	ID. NUMBER	PHONE	SIGN
	_				NUMBER	
	1.	10001111	CELLERY MARRIED	2958/104	0792969981	(A)
	2.	MONICAH OMULAMA	CENTRAL MAROGN	1 28438518	0798732599	Phonica
	3.	KEWH MUSHANO			1077697370	NOON .
	4.	MIRIAH INTINZA	C/MARAGOLI	19841372	0390114869	NEWAL
	5.	DAMARK MAGDALYN			0794291280	MA
	6.	DOLYNIE LUN YAGI	L. MPRRAGON	26284913	6713672206	hos .
/	7.	FRED MUHANDO	C. MBRAGOL		072/590054	HAMM
	8.	GRAHAM LECTOMADI		23072073	0723319290	0
4	9.	CHANZUERIER		32416792	0721654990	507
ı	10.	ANEDE GONFREY		37964225	0799369677	100
	11.		C. MARAGOLI	20142545	0124578768	193000
	12.		C MARAGELI	C767619	19727980271	Run-1
	13.	HADLEY WIDITA	C- MMAGOU		672818863	102-
-	15.	DO141		32819188	0796171311	A P
/	16.			073 0039	0722970174	Qui
-1	/17.	SHARON GOHIENG	day	4319651		86
7	18.				274411216	THOMA ?
1	19.			The state of the s		100 Miles
1		Casta Aux	vea	20601716	Ono cozogla	ATTI
1	20.	money in train	C-mayoray	2469140	0717972261	(Contraction)
+	21.	SHOM INJUL	VCG	34179786	0741527913	1
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	26.			The state of the s		
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### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

PCRA

DATE 14/09/2022

VENUE Friends church Mutembp.

	S/No	Name	ID	Mobile number	Gender	PWD	Age	Age	
					(F/M)		18 - 35	36 - 59	60 and
					10 10		56	43	above
	1.	DAMARIS MAGDALTHE	3432078	0794291280	F34		0/a	à I	11
		FREDRICK MUHANDO	0389253	0721590041	M				V
/		EVELT NE NGATHA		68 78724570	F			V,	
V	1 4.	MARY AMAGOVE	5161639	0127950234	+			/	
1	5	BRIAN KÁVAL		0796171311	Ч		V		
1	6.	GRACE OPILI	07300390	07/22970174	F	/			-\
V	11.	MWNH HUDSON	9446540	0717972815	14			V	
	8	SHERRON ECHIENG	403/9651	0715114475	E		V		
	9.		7494743	0/208/8/37	M			/	
1	10	Ogola Hox	28602716	0110430967	M	¥	V.		
	1		29581504	072969981	N		V		
	12.	Monicah omulama	2843818	0798732599	F.		V		
	13	Keluin Musaland	34169858	0727692320	M		V		
	4	Milita Iminza	19841372	0790114869	F			V	

O I MEDITIMENT OF THEODY



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

S/No Name ID Mobile number Gender PWD Age (F/M) 18-35 36-59 60 and Magdalyne Damais above 34330788 0794 891880 16. Polyne lunyagi lusamadi 86284913 p713072206 17 Graffam 23072073 0723319290 18 Chanzuenck 32416792 0721654990 M 19 Adede Godfley 37964221 0104 3696 77 M 20 Evelyne Mgantua. 20142545 0724578768



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DEI	PARTMENT OF ENVI	RONMENT, WATER	, ENERGY &	NATURAL RESO	URCES
	2-5-	4 COSTTA			
	O An C				MIN
AC		ICIPATO	SCY FIC	16 132 C	31116V
DAT	PE: 20/05/20	23			
DA				•••••	
		ATTENDANC	E LIST		
NO.	NAME	WARD	ID. NUMBER	PHONE	SIGN
1				NUMBER	
2.1	BRIAN MALIMIX	A GISAMBAI	37604162	0716576970	Bour
2/	KAMULA EPPIKE		23208279	0722783360	2
B. 1	GRACE AGAN		23146744	10798596203	A-9
4/		AVEGISAMBAI	6222423	0720161634	NUL
5./	KENNE 14 AM		A DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IN COLUM	0701-64747	6 Aug
8.	GEDFREY MWBS		28857485	07 173034609	W
7/	12 EV- RODGERS M		2307264.3	0711775528	
8/	REV AMUARITE ASI		25209147	0728589955	4
9//	MEX ADUBWA	MAMBAN	22183976	0720450888	- Kaller
16/	0110101011	SIM GISAMBAI	96665910	07000228496	The
11.	LODENYI JOSPHIL		23974688	0701888253	Ŭ-
12.	MICKETS ONDIE	THE RESERVE AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	20537713	0724912358	M
13.	Kennedy O'man	pa aisamtai	10920730	0+2177 8360	\$4
15.	Chapter Lage	that EUD	2	079381832	1000
16,	SHOW INCIP	1 6-0	34179786	074100913	4
17.	Evans Keraul	Containsur	MADIE	Brennas	tour
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The second second			STREET, STREET	Charles and the Control of the Contr	



DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES
VENUE: JCC CHURCH CHAVAKAH
ACTIVITY: PCRA - MATIONAL TREASURT
DATE: 7/09/2022
ATTENDANCE LIST

#### NO. NAME ID. NUMBER PHONE SIGN WARD NUMBER DAMARIU TUIGE 25611437 0719402061 LYADUTWA 12AYA Mirembo plavu 108795 0722447550 Lyaduywy 12mg Masheti 21606560 P71063887° 17564262 0723725942 Angelico 0724220986 6454904 DOUST 6. 11 20111050 0722389624 X 7. Longtergy Majan 8965812 11 0722904172 HI Alividaa 34676428 0725579820 Dennis 27728666 0711284494 ALLAN KINGE 30288715 0723634166 11. EVERLYN MOYO 23768770 07/63/069/ 12. \* WILSON O. KEGONDA 1) 1137171 0716262629 JOHNSIONE MAZOLLO 5792419 0724118866 Dremo Benood Patrick Amore 27976795 0-254041032 2494743 0720878737 1.6. 17. 07/5/19475 ATTARON OUTTENS 40319651 FRANKLINE MGANDA 28556725 0716098984 19. \* MITON ASENA 25 150 644 07 08 986788 AT 20496972 07 17665767 James 44 FRBY KAVERE 20. 11 21. 22. 23. 24. 25. 26. 27. 28. 29.



### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

#### DIRECTORATE OF CLIMATE CHANGE

PCRA

DATE 7/09/20 22

VENUE JCC Church chavakali

	S/No Name	ID I	Mobile number	Gender	PWD	Age			Si
				(F/M) 5 13		18-35 3 3	36 - 59	60 and above 6	
1	Damariu (c/g)	25611437 (	719402061	384		11	20	03	
	2. Mirembo ollavu		122441550	M				1	
1	3. Abel Masheti	21606560 0	110638879	M			V.		
1	4 Am Gatray ohoth		122389624 -	F			V		
Y	5 Jonathan Majan		722904172	M				V	
1	- 6 Alan Isinga	30 28 8 11	0723634166	M		V			
1	TEVERLY ? Aloyo	03768770	0716310691	F			/		
1	g Johnstone Mazollo	57924190	129119866	M	V			1	
	9 Diemo Benard	279767910	125404472	M			V		
	10 Patrick Amoke		120878737	M			V		
	11 Shavon ochreng	40319651 0		1 F		V			
	12 Frankline Maganda	28556721 07		M		1			
	13 Miltone Asera	25150644 0	The state of the s	И			/		
L	14 Muhambe Jennis	27728666 07	11188 44 74	M		1			



### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

SNo	Name	ID	Mobile number	Gender	PWD	Age		
31.10	· · · · · · · · · · · · · · · · · · ·			(F/M)		18 - 35	36 - 59	60 and
								above
16	youry Mah hi	1356426	2 077389674	M				/
16,	Houry Knaeliko	Cucagot	0784270986	M				V
17.	Henry Mghybi Houry Angeliko Charity Alividea	3 L 67 CU28	0784270986	F		1		
1/18	Wilson Kegonda	1137171	0716247629	Ü				V
19.								
	, '							

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7. EXLLIAS KHADA	MBT SHAMAKHOKHO	13735878	0722 925937	Olden Jamba
8. HENRY GAL	- Children	7901484	0724226137	Alega Asse
10. Denes Shiratu	THE PROPERTY OF THE PARTY OF TH	1781852	0724317311	Ham
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### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

DATE 8/09/2022

PCRA

VENUE Chamakhokho Jalvation Army

NANG AYES A Beverlyne Inganji EXLLIAS KHADAMBI HGHRY GADAPI	11417050 07273258 01 2073 1122 0708804113 1373588 0722925937 7901484 0794790880	(F/M) 5 13 4 F 6 F		Age 18 - 35 0 4 0 2	36-59	60 and above	
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AMUSU DERRICK	25971255 0112173579	M			1		
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# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE 8/09/2022

VENUE Chamakho KO Salvation Army

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	NO.	NAME	WARD	ID. NUMBER	PHONE NUMBER	SIGN	
-	1.	AMINI JUMA	BANJA	13735687		den	
/	2.	pamellah Liadever	BANJA	13633178	.0723302079		
1	3.	Jane Agostia	11	13580290	10721432946	Agosta	
	4.	Isaa Onzere	Banga	29976548	0791811694		28
-	5.	DAHAH TUMBA	BAHTA	257-3687€		<b>D</b>	
	6.	EVELLYH MUBOGO		13737599	0727828303	Emyogs	
	7.	PHANUEL ALWADE	BANJA	7350027	0+04251648	a	
	8.	VICTOR MUDAVA	RANJA	21964513	0718926138	Wen	
	9.	EVERLINE JEDNOECT	BANJA	25682266	0717376629	ZIM-	
	10.	DUNCAN Aliaka	Banja	25703840	0726778122	A	
	11.	RATRICK AMORE		66		Maria	
	12.	JAMES KAPII	TAMBUA	6641536	6723245114	Munt	
	13.	Morgon Mugada	TAMBOR	20797389	0723982723	1114	
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	16.	GRACE PIA BUNYINDA	TAMBUA	2066373	0721655152	Brund	0
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	22.	REV. JAMEN ANAYA	TAMBUR	4178756	0722443816	- Alle	-
	23.	MONICA ODARI	TAMBUA	11835131	0724880706	Del 1	-
	24.,	WALTER CHANGILWA	TAMBUA	7893986	0721565154	Mary	
	25.	JAMES MABERA	Gamery		J1941186	Mate	
	26.	DOMINIC MADIGA	TAMBUA	26630498	0758330464	Ale	
	27.	KENNETH NOALO	TAMBUA	21517325	0727956018	the the	
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### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

DATE 30 05 2022

DIRECTORATE OF CLIMATE CHANGE

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5/1/0	Name	ID	Mobile number	Gender	PWD	Age		
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1	AMIN JUMA	107705560		8 14		16	46	above.
2	0	13735687		3 M.5		01	123	
1 3	PAMELA LIADEVE		0723302079	F_	-		V:	
0	Jane Agosta	13580290		F			V	
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8	ANUSU DERICR Laga Onzere Everlyn Mudog, Phanuel Alunde	299764	0726283411 0791811694 0797848303 0704251648	F		/	V.	
10	Victor Mydgva	14/96450	0718926138	M			~	
12.	Everlyne Jepkoel Isaac ombore James hami	29976548	0717375629	H F M		~	<b>V</b>	
- 12	same hami	6641536	0123248719	W.			W	



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VENUE: PRODDYN ECO LOUR GE
ACTIVITY: PARTICIPATORY RISK ASSESSM 134T
DATE: 27th MAY, 2022

#### ATTENDANCE LIST

9. ISAME AMURICAM SPEIN NEWY 168178 072437860 071 10. ESTHER ANDAO PACHAGANT 32026686 0794530739 From 11. PHELITOTOS AHMICH DUTT COPANT 289950 15506035337 AP 12. MICODEMIES HABINE PARTICIPANT 289950 15506035337 AP 13. JANE ATLYO 15. HIPHER WAN HALL FREICIPANT 20951897 070031741 071 16. DORINE KUYA WATER OFFICE 29181640 07088371468 17. CABASO SHKSON CHIMATE COMMITTE 2576902790 0729609757 071 18. ANNE K. NYAMITA CC C (WONE) 21275581 6715733090 200	1	SIGN	PHONE NUMBER	ID. NUMBER	DESIGNATION		D. NAME	NO.
2. ALEX SAMBAYIT PALE COLUMN 26594784 0700012400  3. SAMULA WATHINGTONG PANTING TO THE COLUMN 274 4266 8 42878716  4. TONUTO DENNI! WARD APMIN 284 4266 8 42878716  5. CHRISTINE HOATH PARTICIPANT 2650979 0710486614 P.  6. RAFL ATOMA RATECIPANT 2650979 0710486614 P.  7. CAT HERINE ADIEND CHURCH 47 DT 447 0770 8 80.94 CA  8. DANIEL A'CUITAL SPECIAL NEWLY 1681 758 072437663 DTC  10. ESTHER AND DEN 32026686 0794530737 PARTICIPANT 2899501 SM66353A8 PRI  11. PHENTOS AHRIPT PARTICIPANT 2899501 SM66353A8 PRI  12. MICODEMIUS HEBINE PARTICIPANT 2899501 SM66353A8 PRI  13. JANE APTYO LAPO ACHRITTED 2465795 0721294269 ATTY  15. HIPHER RHAHGUTI PARTICIPANT 2899501 O721294269 ATTY  16. DORINE KUYA WATER DEGLE 29181640 0108831468  17. OMBASO SHENOT CHIMAL 267692190 0729609754 OND COLUMN 101 DTC  18. ANABE K. NAMICIA CECCUMAL 267692190 0729609754 OND COLUMN 101 DTC  20. SHEMI NYIU IN OTHER 20163190 0749609754 OND COLUMN 101 DTC  21. MERIESO BENERD NOTH 2016219 074623701 UAR  20. SHEMI NYIU IN OTHER 2016318 DTC  21. MERIESO BENERD NOTH 274219 0746238 PRI  22. WILLIAM ORGAN MERILAND 275610 174524613 PRI  23. SOMBE SUSTINE PROVINCIPANT 275610 1 074634613 PRI  24. PATRICK CHAMPREPIE PROVINCIPANT 275610 1 074634613 PRI  25. CANONIC MUNICALON 2459256 182138007 STC  26.	1	14/1	5794079617	20410601	Participent'	IFF L KANRY	MYCLIFT	1.
3. SABOTA WATER OFFICE PRINCE PARTICIPANT 34181252 0718651823 4. TONGO DENNI WARD APMIN 28442665 8142878816 5. CHRISTINE AVAIL PARTICIPANT 26450979 0710486614 6. PARL ATOMA PARTICIPANT 2650979 0710486614 7. CATHERINE ADIEND CHURCH 14707447 072088094 07 8. DANIBL ATOMICAL SPECIAL NEWY 1681758 072437663 072437663 072437663 072437663 072437663 072437663 072437663 072437663 072437663 072437663 072437663 072437663 072437663 07242661 07263763 07242661 07263763 07242661 07263765 07242661 07263765 07242661 072637660 07	2	16			The second secon		ALEX	-
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5. CHRISTINE MINAN PARTICIPANT 26503388 DY28103911 ALTONOMA PARTICIPANT 2650979 OTICU86614 PD.  6. RAFL AYUMA PARTICIPANT 2650979 OTICU86614 PD.  7. CAS HERING ADIEND CHURCH IT TOT 147 D72088019 CA.  8. DANIBLA OTICINA SPECIAL NORTH 1681788 D724378630 BDTS  9. ISAME AMURICALIN ELDER 3432882 DF18101394 AMURICALIN ELDER 3432882 DF18101394 AMURICALIN ELDER 3432882 DF18101394 AMURICALIN DANICIPANT 32026686 DT94530737 AMURICALIN DANICIPANT 289900 II SM6038348 AMURICALIN DANICIPANT 289900 II SM6038348 AMURICALIN DANICIPANT 2098897 D710031741 DIPLEMENTAL DANICIPANT 2098897 D710031741 DIPLEMENTAL DANICIPANT 2098897 D710031741 DIPLEMENTAL DANICIPANT 2098897 D710031741 DIPLEMENTAL CCCCUMPANT 2098897 D710031741 DIPLEMENTAL CCCCUMPANT 2576902790 D729609754 DANICAL DAN	a f	Da		28442665	WARD ADMIN	of DENNY	TONHOI	-
6. RAFL ATOMA PARTICIPANT 26510979 OTICH86614 PD  8. LANIELA DESTO CHURCH 14707447 0720 88019 CA  8. LANIELA DESTO CHURCH 168178 0724378620 0521  9. ISAME AMURICAN ELDER 343282 0718101384 1991  10. ESTHER ANDAO DALLAGALT 32026686 0794530737 PARTICIPANT 289950 N-5116035337 PARTICIPANT 20951897 0721294269 ATOMA DALLAGE 29181640 07081841 DIPLEMENTAL DALLAGE 29181640 0708187168 DELLAGE 29181640 DELLAGE 291816	3	aller				TIME MUANI	CHRISTIN	5.
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9. ISAME A TUNTAL SPECIAL NEWLY 168178 072437560 00000 10. ESTHER ANDAO PARTICIPANT 2802685 0794530739 000000 11. PHEREUTOS AHMINIA PARTICIPANT 280900 W SM603537 DP 12. MICODEMUS HABINE PARTICIPANT 280900 W SM6035348 MAN 13. JANE APLYO LARD ACRICFFER DUBSTAS 0721294269 15. HIPHER RITANICIPANT 20051897 07000000000 16. DORINE RUYA WATER DIFFICE 29181640 0708837468 17. CABBASO SHEKSON CLIMATE COMMITTE 2576902790 0729609754 (1) 18. HABIS V. NAMITA C.	Adul .	LCA		4707447	A CONTRACTOR OF THE PARTY OF TH	RINE ADIEND	CATHERIN	V1. C
10. ESTHER ANJAO Pachapat 32026686 0794530734 PARMINIA 11. PHEARUTUS AHMINIA PURTICIPANI 289900 115035337 PAR 12. MICONEMUS HABINE PARTICIPANI 289900 115035337 PAR 13. JANE APLYO LARD ACINCYPTICE DYGSTAS 0721294269 AFT 15. HIPHER WHAHAMI PARTICIPANI 20951897 0721294269 AFT 16. DORINE KUYA WATER DETICE 29181640 0708877468 17. OMBASO JEHNSON CHMAIF COMMITTE 2576902790 0729609754 18. MANNE K. NYAMITA CCCCCCOMMITTE 2576902790 0729609754 18. MANNE K. NYAMITA CCCCCOMMITTE 2576902790 0729609754 19. LIHET NYAGOTA COMMUNICATION 21762214 0726239501 UPT 20. SHEMI INJINI 12000 34179786 0741527913 21. HERRESO BEHERD YOUTH 25742780 0716135817 22. WINIAM CONSCRIPTION NOTH 25742780 0716135817 23. SOMBE JUSTINE PARTICIPANI 27501 1 074524613 8 PART 24. PATRICK CHAMNERIEF PARTICIPANI 27501 1 074524613 8 PART 25. CATONYIE MUNICIPAL PARTICIPANI 27501 1 074524613 8 PART 26.	725600	ADOTE:		1681758	SPECIAL NEEDY	BLA DWITAL	DANIB	/
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17. OMBASO JAKKSON CHIMATE COMMITTE 2576902790 (729609754 (1))  18. MANDE K. NYAMITA CCCC(WONE) 21375581 6715733090 PAN  19. LIHET NYAGUITA COMMUNICATION 21762214 0726239501 WATE  20. SHEND NOTH 34179786 074527913 D  21. HERESO BENERD NOTH 34179786 0729629400 22. WAITING CONGRED MEDITORY 3417978 0729629400 23. Sample JUSTINE BENERD NOTH 2341495 073225555 PAN  24. PATRICK CHAMINECOURT PHONICIPAN 27551491 074524613 8 PAN  25. LAPONICE MUNICIPAN 27551491 074524613 8 PAN  26.		13		29181640	WATER OFFICE	E KUYA	DORINE	16.
18. ANNE K. NYAMITA CCCC(WOLD.) 21375581 6715733090 PAN  19. LIHET NYAGUTTA COMMUNICATION 21762214 0726239501 UPTE  20. SHEMI INJILI 121 071800 34179786 0741527913 DE  21. HERRESO BEHERD YOUTH 0342780 0716 1858 817 DE  22. WILLIAM CONGRESO MERINGER 30465078 0729629400 DE  23. Sombe JUSTINE 34234475 32341495 073225555 1750  24. PATRICK CHAMPERIE PARILLIAM 2751491 0745046138 PAR  25. CAPONIE MUNICIPAN 2015149 0782138007 September 1961	ac	Chac				JACKSON	CMBASO	17.
19. LIHET NYAGUITA COMMUNICATION 21762214 0726239501 LIGHT 20. SHEAL INJIL 120. DINGOV 34179786 074527913 22. HISTORIOS BENERD NOTH 3342780 0716 135817 Day 22. WILLIAM CONGRESO MESTINGS 3046578 0729629400 23. Somber JUSTINES BARRIES 32341495 073225555 1750 24. PATRICK CHANNECHIEF PARILLIAM 275491 074504613 8 PARILLIAM 275491 074504613 8 PARILLIAM 275691 0756	W.	The	6715733090	21375581	CCC(wone.)	K- NYKMITA	ANNE K.	18.
20. SHOW INJIN 12 10 01/200 34179786 0741527913 22.  21. HERRESO BEHERD YOUTH 2342780 0716 955 817 10 12 12 12 12 12 12 12 12 12 12 12 12 12	90	LIANC	0726239501	21762214	Communicothun	NYAGOITA	LIHET 1	19.
21. MERIESO BEMEND YOUTH 2342780 0116 185 817 PM  22. WILLIAM CONGREY MERITORY 3046278 072 9629400  23. Sambe JUSTINE BASKETS 32341495 078228565 1 FM  24. PATRICK CHAMPERPIET PARTICIPANT 275019 1 074504613 8 PM  25. CARONYLE MUKHYA PONICIPANT 24592756 0 1 82138007 St	5	1	0745279/3		En. Oltroor	1 12/11/	SHEM	20.
22. William One our member, 300 longs 072 962 9400 23. Samble Justine 300 16475 32341495 07322565 1 900 24. PATRICK CHAMPERINE PARTICIPAN 275019 1 074504613 8 PAR 25. LAVORISE MUNICIPANT 24592756 0 182138007 Std. 26.	~ Atri	ka.	0716 955 817		Youth	ESO BEMEND	MESERESO	21.
23. Samber Justite 302000 1922555 1 Ft. 24. PATRICK CHMWRONE PARILICIANN 275019 1 074504613 8 PARILICIANN 27501912 MUXIYA PONICIPANT 24592756 0 182138007 Style.	75	X		0	member.	m Ongaun	MULTAN	22.
24. PATRICK CHMWRENE PARTICIPAN 2750191 074504613 8 AND 25. CAROLLE MUNICIPANT 245927560782138007 Std	7	(HOP)	018225555	32341495	34341435	se Justine	Sambe	23.
25. CATONYIE MUKIYA PONTCIPCINT 24592756 0 782138007 5	2	Quel			PARTICIANN	ICK CHAMURCHIE	PATRICK	24.
26.	d	Stat		24592756	Paricipant	112 MUHYA	CANONIE	25.
27.	4	-0		10,00				26.
								27.
28.								28.
29.		THERE						29.



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

PCRA

DATE 27/05/2022
VENUE RODDY'S ECO-lounge.

	ID	Mobile number	Gender (F/M)	PWD	Age		
1 Tongo I Denny	2000000	Della a	13 13		18-35	36 - 59 <b>66 6</b>	60 and
2 Catherine Abjecto	H101 H41	0149878816 0120880196	M25	1	\$ 6	119	above
3. Saniel pulta.  H. Isaac Amukaha	16681758	0124315639	F. M.	1			Vi
4. Isaac Amukoha. 5. Ombasa Jackson.	3432382	0718106385	M	1	V		-
6. Anne Nyamita.	25 769627	0729609754	M		1		V
7. Linnet Nuagorii	21762214	0115933090	1			/	
8. Shem in lin	The second secon	0741527913	M			V	
9. Patrok Gamurembe	27501971	.0745046138	M			V	
11 Alex sambaya	2641061 26584784	0794079617	M			V	
12. Christine Ndayi	2675388	07 00012400	M	-		V	
13 Sabula washingtone.	34181352	0112611823	F M		,	Y.	
4 Rad Ayuma	26810919	0110486614	F		V	1	



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

DATE 27/05/2022

VENUE Roddy's Éta-lounge

	ID Mobile number	Gender	PWD	Age			
15. Ester Anjao 16. Phetestus Angrua 17. Nicodemus Habine 18. Jane Apryo 19. Nipher Hangayi 20. Dorine Kuya 21. Neereso Benerd 22. Miram congoyo 23. Samba Justino	32026686 0794530739 32026686 0716035337 2899006 0716035337 2899006 0716035348 22465791 07212031846 29181640 0708837468 231427800716955817 20965078 0729629400 3234496 07822888	(F/M)		-	36 - 59	60 and above	
24. Patrick Gammenbo	2750 1991 0745046 138	M		V.,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		

Y. E. Buryore



DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES

VENUE: ELUKONGO CHURCH OF (700)

ACTIVITY: PARTICIPATION RICK ASESTINENTIN

DATE: 15/20/2027

#### ATTENDANCE LIST



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

	S/No	Name		ID	Mobile number	Gender	PWD	Age		8
						(F/M)		18 - 35	36 - 59	60 and
	1					117		63	134	above20
1	11	NELSON	OMBONTO	10163603	0925425558	5M2		11	211	20
V	12	TEPHRICE	A. OMBOGO	14169481	0723909200	F			4	.V.
L	3	JANE SI	BELENIE		6720689411	F				V
V	1	BILLIAH	AMBASA	10217020	0725890778	F		1	V	
L	5	Macrae	Malanyo	24717687	0122 938577	M		V		
	6	GETRAY	TIPMOKO		0798063167	F		1		
	7	MIRIAM	MUSANGA	11095617	0720630902	F			1	
1	8	BILLIAH	AMBASA	10217020	0725890778	F			V	
	9	LARRY	NZAVAYE	2282802	0725883594	M	M		V	
	10	MICHAEL	MATIKA	21559621	0703461556	W	AA		V	
	11	LIZREEN	OWUOR	28485483	0712970886	F		V		
	13	AIBERT	OLWANGU	27132260	THE RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE OWNER, THE PERSON NAMED IN THE PERSON NAMED IN THE OWNER, THE PERSON NAMED IN THE PERSO	M		V		
	13	Josephine		39481762	0769930276	F		1		
1	14	REME	OBURA	36433148	0710779776	F		V		



### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

SNO	Name	ID	Mobile number	Gender	PWD	Age	
5/110	Tume	10		(F/M)		18 - 35	36 - 59
						-	
15	Educard Espirah	24626326	0716267483	M		,	V
	lyine Olesi		0768591769	F		V	
		40319051	0115114415	F		V	
		2810153	0716861898	M		V	
12	winstone Atamba	0 1010	11000				



DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES

VENUE: SHAMAKHOKHO SALVATION ARM

ACTIVITY: PCRA - HATIOHAL TREASURY

DATE: 08/09/2022

### ATTENDANCE LIST

								/
		NO. NA	ME		WARD	ID. NUMBER	PHONE NUMBER	SIGN
1	1 2	MA		HAVAKALI	SHIRU	13300959	0716160281	hasa
/	-	100	CKLHHE	L17041	SHIRU	2729915	1727346341	4
	3	- 5	IKAS	LIBWA	I SHIRV	069520	10716 374964	-he
	4.	NI	YMY R	SUMA	SHIRY	30122461	0703169963	
/	5.	Wh	LIGH	MIDO	SAVEN	8478434	0727886860	III.
	6.	Veag	ion Mo	don.	Strow	30686525 2	012286360	Thomas
C	7.		EMARY	FMMHZE	The second secon	7278971		3 9
/	18:	SAR		UMBA	CHIRU	28564296	0710514546	CANY
-	9.	EM		HEX	CHIEU			8
1/	10.					12567786	1	Emily
	11.			147-21	SHO.	25703598	6717667800	A
1	12.		Moss	MULIPA	MITIRU	14721199	0726642000	100 ALA
/				strayg	SHIRD	253043 AS	07 0523 1907	The
	13.	IREN		SURA	CENT	30433148	0710779776	
V	15.	FRAN	KLINE 1	MUGANDA	CGV	28 55 67 25		-10
	16.	Nicto	0 P	ndi 1	MONTHIE			
	17.	EVA	HCK	ISAMA	7 111111	11100146		MO
	18.	FDIF	1		OHIAII	S. Can	0724215198	& COME
	19.	100	IA A	LEMBA	2230353	4 SHIRL	0730269618	an
	20,	1010	K.Son	vu ta	Shiry	27 444191		Ø4
	21.	-						67
		-						
	22.							
	23.							
	24.					4		
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	27.							
1	70	-						



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

	ID	Mobile number	Gender	PWD	Age		
1. MARY KHAVARARI  JOHNING LIJONI  J. SILAS LIDHAII  4. WINNY JUMA  J. WACTER MIDO  6 SARA IM ATUMBA  7 EMILY ATESA  8 ALEX KHEJERI  9. NICKSON MULIRA  10 MOSES ARMBWATA  1 IRENE BORA  12. FIGIRATION MUGANA  13 VICTORY ONCH  14. EVONS KISAMOD	28 56 4296 12567786 28 703598 14 721195 12 833148 28 555166 19 703166	0716160281 0727345341 07163749 64 07103169963 0722856560 0724819815 076450963 0717602800 0726450963 0717602800 0726642005 07079776 0728566128 070889959 0734215198	(F/M) 7   1   5   5   5   5   5   5   5   5   5		1.	36-59 37 2/2	60 and above

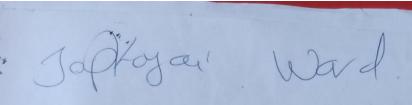


# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE

VENUE

	ID	Mobile number	Gender	PWD	Age		
15. Erick Alemba 16. Nickon Vula 17. Regan Majari 18. Risemay Amunze	20303534 27444191 30122451 1278971	0130269616 0194811313 0103169963 011051454D	(F/M)			36 - 59	60 and above





### DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES

VENUE:

ACTIVITY: PARTICIPATORY RISLE ASSETTIGE

DATE:

#### ATTENDANCE LIST

	1-			THE TENDAM	CE LIST		
		IO. NAME		WARD	ID. NUMBER		SIGN
L	1.	/ WASTER	TAHYA	7604044	00	NUMBER	
	12	morning	late Natione	JEPROYAI	28191777	0795701695	Balla.
	3.	NELLY			20026375;	0720483276	John
	4	ERICK		JEPKO TAI	2154891	D711419345	Nel.
/	5/	SAMM	The state of the s		34144858	0742382329	RA
	6.		1 1100	JEPKOYAI	6877944	0710558467	8×10
	7.	NANCY	CHELAGAT	JEPKOYA)	13366078	0740702424	7
	8.	18ALME		KITAGWA	14658720	0716037272	
		MIRIAM		SEPKOYAI	4146454	0728993051	Edge
	9.	GRACE	OMACHA	Japvoini	9358623	0793885407	More.
. 1	10	SAMSON	SINGA	JEPROYAI	3487952	0722933525	Cana
_	11.	PEREZ	AGUMA	TEPKOYAT	26105264		<b>A</b>
	12.	It want	ODENS	JEDUSYAT	36249360	0725035247	The T
-	113.	TIKCOB AD	NBI MUSICKA	JEPSCOTAT	The second second	07032129101	the state
	15.	DOUGERS		FAMBUA	13197129	0720885269	ANV
	16.	COAST !	MATANSI		2123543	0720299433	D.
	17.	TANK	PABLETINE	A TAMBUA	2060373	0721655152	Commende
		JAMES	PATTI N	TAMBUN	6641536	572324549	JUMA
	18.	Morgan	Mugache	JAMBUR .	20797289	0723987723	Ala
	1.9.	Grahm	Bures	LAMBUR	33444	07-28-230863	9
	20.	Heune	AL Hotald	1Ambla	21517325	0727956018	La
	21.	# Corche	Mugusi	12966526	072 129660	26 0720889	703
1	22.	AL	(Cont A	218632316	28652716		77
1	23.	4	saul-	Chenlesyai		-15079	- Ount
1	24.	Trans à	Pasacra-	Crepan	11162112	Q+>42028	Lown's
+							
-	25.						
-	26.						
-	27.						
	28.						
	29.	PERMIT					



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

DATE ROISIRORR

DIRECTORATE OF CLIMATE CHANGE

VENUE cossa collage PCRA

	ID	Mobile number	Gender	Divin			
Naher Junya  R. Nelly Jegggo  B. SAMMIY DYAVO  H' NANCY CHELAGAT  G. JACOB ANUBI MUERA  T ALEX OGOLA  E. EVANS KISAMBO  9. Immacylyte Nabwro  10. Erick Musicygo  11. SALOM E ODANGA	6877944 13366078 26105264 8 13197129 28602718 11140115 80006375	0740701695 0711419345 0710558447 0740702424 0720885269 011043094 0724215198 0720483276	Gender (F/M) 7 9 3 M F M M F M M M	PWD	Age 18-35 0 5 0 1	36-59 1 4 3 2 V	60 and above
19. EUGINE D DENDO  13. ECOTENCE MUGUSI  14. Miriam — mmbone  15. Grace omachor  16. Cambon Ginga	302493681 179661861 4146454	0708 2529 64 0708 2529 64 078088 52 73 0728973051	F M M F M		Y /	Y Y Y	1



DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES

VENUE: JCC CHURCH CHAVAKALI

ACTIVITY: PCR A - NATIONAL TREASURY

DATE: 7/09/2022

#### ATTENDANCE LIST

· IN	O NUM				
11	O. NAME	WARD	ID. NUMBER	PHONE	SIGN
1	COL			NUMBER	
2.	PARTO I	WIABATIA	7937203	0705185624	de
3.	BETTY ASWAN		20184847	0713412563	-
1	MACKSON LWANG	4WISABATIA	20619248	0710166779	
5	Agray Myentia	W. MARRON	13508599		-
6.	SHAS MIGOUERO	W. SABATIA	2779373	0718087304	K
7	DOIDA KEZENGWA	WEST SABATIA	28/12/47	0718417404	- Jade
8.	OLIVER MUDORA	WESTSABATIA		0728589996	22
9.	SAGALA ASWANI	WEST SABATTA	20078806	0728742303	(A
10.	CECEUIA MURUKAN		1	0726744650	A
111.	KEVIN Y KAYOU	WEST STANTIA	3.8210173	0704018010	Who -
12.	HESBON MILIMU	WEST SABATIA	0832648	0711749115	ON.
-	WHAT BHOTERE	WEST SABATIA	20265888		Many Many
13.	GLORIA KAVAYA	WEST CABATIA	39802018	0769794983	Market
	Double K GoGory	MOST SABIRTY	2-1	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	
/16.	LIHER HYDERILI	later are	1.0000	0707239850	KGI,



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

	- THEN	I OF ENVIRONM	ENT. WATER					
DATE	7/09/202	2 DIRE	ENT, WATER, NAT CCTORATE OF CLI PCRA	TURAL RESOU MATE CHAN	RCES &	CLIMAT	E CHAN(	GE
VENUE	111		ICKA		OL.			
S/No Name	(hi	irch Chavak	ial;					
		ID	Mobile number	Gender	PWD	Age		
1 Grace 1	Aradr			(F/M)			36 - 59	60 and
2. Bety F	Vivani	7937203	0705181624	11 12 FA 4		46	65	above
- COUL	Luangu	20 61 92 Ac	0713412563	F		0	V	01
5 5 0	lugada Nugouero	15505549	07 21 210947	M			V	
6. Odida	Le zenawa	27789373	0718087304	M		1	V	
1. Olivei IX	NuDora	2581 5927	0718417404	M		V		
8 Sagala	Aswani	20078806	200788806	F	1		V	
9. Ceoelia	Murakaji	97700305	07267744650	F	-		V	
1 1 11 1	raugi Milomu	33 210173	0704838074	M)	wa	V		
12 Linah, B	woyere		0711749117	m	0			V
13 Gloriah K	Salaya	39 5020 K	0769794983	F			V	
14 Dauglous	Sogomi	32343880	0101239810	m	W	Y		
			TIV V			1/		



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

PCRA

DATE 7/09/2022
VENUE JCC Church Changeali

	ID	Mobile number	Gender (F/M)	PWD	Age		
15. Linet Nyagolia  16. Gloria kavaya  16. Irene o Bura  17. Brenda okongo  18. Victor Oridi  19. Stward kedemi  20. Violet Asami  21. Jahlet Mudahi 22. Mares Asemeha  23. Francis Icliq L	12 50 5166 3944 6922 0 22 4984 1038 3442 3448 6049	101,9101	F F M M F F M M		18-35	36-59	60 and above





MAT

DEPARTMENT OF ENVIRONMENT WAS
VENUE: REDDY G. L. C. LOUNGE.
DATE: 2714 MAY, 2022
ATTENDANCE

### ATTENDANCE LIST

NO NAME	211 ILND	ANCE LIST		
NO. NAME	DEGLOV			
76	DESIGNATIO	N ID. NUMBER	PHONE	Taxaxx
1. ALFRED INC				SIGN
2. DIGEL	TABO	320011	NUMBER	
Ditty (ito	tency.	33004857	0794523020	Ando
DUNO non	2514	30327027.	0746119621	1 thanks
4. JOB M. OS	2	24270214	01.4011.4051	4
5. FUCO. VICE	ARO	22275	0791057096	anse.
5. EVERWHE A	EKOSA	2332545	0122 104 784	3.5
Tale Mie	and a list of	22485767	0701494027	Hou
7. JONEH LIVA		~ 22690847	0120911766	11
8 ANNER A. DK	417	32117613	11/66	too!
9. 6.01	444		2701355076	2001
DAMINEL W.	TERRIN PIN	9217189	0715866408	
ASITER T. BO	VEI - ILLO	7882219	072823460	Abutiti
11. Elius SDINGO	KELD Homen Rep	5548926	0725 < 5400	5 Calm
	+	0115.	0720840515	Halm
HOWYUKO JU	eila tari	20505454	0743923165	Etw
13. LEECH INYAM	RUVU Touth	127210851	0704489976	012
		1100000	040 173 116	- X
16. GEILAND		632	0721781279	Q 20 1/2
SIELLAH ONGALD	ANNER JOSTUDO	130135	272914132	26
17. MARK OTICHIX A	ANDENII - OUTH REP		0769197880	Marie
18. KINGON	MIKO Commissioner	71000	014 111 1980	asa U
18. SIMEON KNENDO	ATOLA YOUTH PEP	1000	0740459100	Chall
	A Divis		0706227568	श्रीज-
		13735148 C	17/22000	अपवय-
21. MENE OBURA	ENV OFFICER	A	0713390690	EMP
- 12mill N112min	ele looks, and	30433148	0710779776	0
22. PATRICK CAMPAGINA	THE OFFICER	25367236	728756263	
23. LINET NIAGO	MRE DRIVER	27-1100	12010670	MICE
	HA Communication	1,000	3728762578	mas
SHOW! INCH		4/00/4	728239501	il the
		34179786 0		THE WAY
1)6	99	201212		20
Daniel Ko	an Member	38/01012	216261898	the.
		1894514 0	71777071	
18 MA 1	nyl Farmer	4159665	717300718	CP STORY
A CHAILAI	PINA		0722420531	15
29.	, MAD	1681758 0=	72435639	1 (Allong)
			100007	MADE OF



## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

DATE 27/05/2022

VENUE RODDY: Eco-lourge --

S/No Name	ID	Mobile number	Gender	PWD	Age		
A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			(F/M)		18 - 35	36 - 59	60 and
P SAMWEL TERRAH	QQ 690847	0720971766	10 16 M 2 H		3 10	119	above 00
3. Esther Bokelo	1887219 5544976	0728234605	И	V	1		VV
LEECH IHYAMBURTO	1971709	072/18/279	F 4		,	/	
6. IREME OBURA	31579003	0140459100	M		V		
7- Alice Musulup		0710779776 0128756262	F		V	V	
8. Patrick Gamurembe	27501991	0728762578	M		V		
9 Linet Nyagoha		072623950	4		1	V	
11 Winstone Hamba		0716261898	M		V		
12. Alfred Ingabo	The state of the s	019452 30 20	И		1		
13 Over 9 Geoffrey		07461196 21	М	11/1	V		
14 OLUKO AGIVEY	1242/04141	079/057086	IM		1		



## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

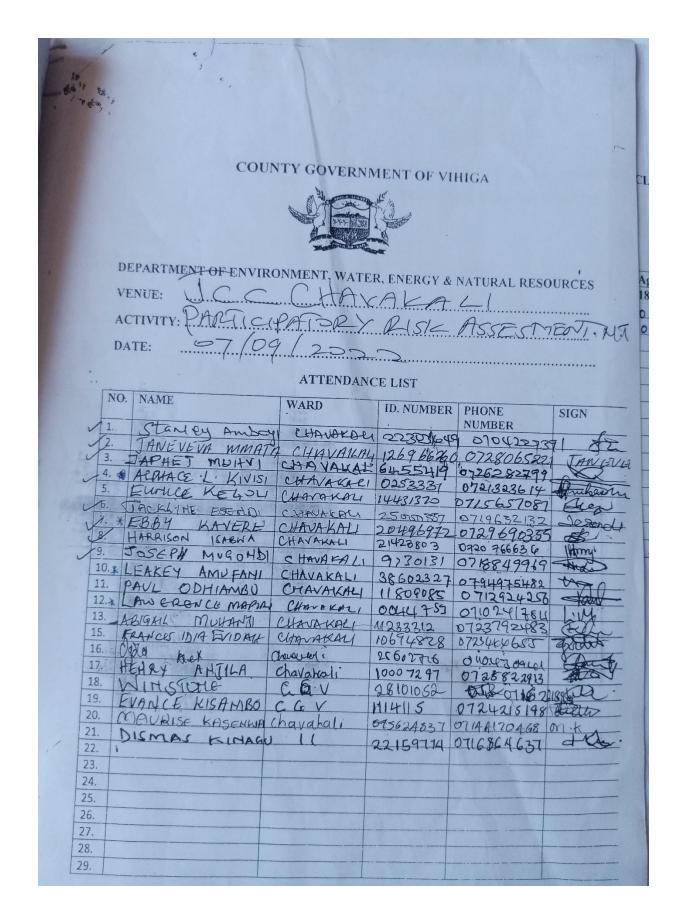
DATE 27/05/3022 VENUE Rodolys

DIRECTORATE OF CLIMATE CHANGE

3/110	Name	ID	Mobile number	Gender	PWD	Age		
				(F/M)			36 - 59	60 and above
15	Job Osigko	9332545	0722.70	И			V	
16	Everlyne Nekesa		0701492027	F	The		~	
17	Joach LLAH		0701355076	M		V		
	eliud Odinga		0743923165	M			/	
19	Actuvukg Uhpila	2921585	0704489976	F		1		
20	Violet Hawire		0/22914133	F			~	
	otella Andony!	3597 1431	0169197880	F		V		
22	SIMPON KWONDO	253   42 23	0706227568	M	1	V		
23	Elphas Palia	1373514	8 071339 0690	w	1V	,	V	
		4159005	0722420531	F				
	William Eldowic		0717300718	W				
	Aprier A Okulu.	19217189	0715860408				-	

COUNTY GOVERNMENT OF VIHIGA										
m 3 VINIGA										
DEPARTMENT OF THE										
DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES										
VENUE: WITH CALAL										
ACTIVITY: PARTICIPATION RISK ASSESTMENT, MI										
DATE: 97/09/200										
ATTENDANCE										
NO. NAME WARP										
WARD	ID. NUMBER PHONE SIGN NUMBER									
1. Stanley Ambay EHAVORD	4 22301/249 DIOUSERSI &									
1/3 ====================================	74 1269 66260 0728065221 TANIELIS									
5 THATCE L'KIVISI COMMAKAR	21 0253331 0721323614									
16. JACKLINE FEETO CHAVACAL	14431320 0715657087 Flex									
V. * EBBY KAVERE CHAVAKALI	20496977 0729690255									
9. JOSEPH MUROHDI CHANDEDI.	21428803 0720 766636 Mmy									
10. LEAKEY AMUFANI CHAVAKALI	38602327 079110751180 to									
12 DITIAMSO CHAVALAL	11804085 0712924250									
13. ABIGALL MUHANAI CHAVAKALI	1283312 0723792483 AV									
15. FRANCES IDIA ENDAGE CHANAKAY	10694828 0723464685 axio									
17. HEHRY AHTILA Chavarrali	1000 72 97 072582 2012									
18. WINSTONE COV	28101062 0725822913									
19. EVANCE KISAMBO CG V	114115 0724215148 2000									
21. DISMAS KINAGU I	675624537 0714A170468 07 K									
22.	22159714 0716864637 de.									
23.										
25.										
26.										
27.										

28. 29.





### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

DATE 07/09/2022

VENUE JCC characali

PCRA

	S/No Name	ID	Mobile number	Gender	PWD	Age			
					(F/M)			36 - 59 96 86	60 and above 2 2
11	11.	Stanley Ambayi	aa 3036H9	0704227391	6 134 2 M &		09	21/2	11
V	2.	Jane upva mmata		0728065221	F	,		1/-	
1	3.	Taphet Multur	6H 55 H10	0726282799	M.	V		,	1
/		Eunice Kegoti		0115617087	F			14.	
/		Jacklyne Esendi	25250351	0719632132-	F			V	
	Contract of the last of the la	Harrison Isabua	214 23803	0720766636	W			V V	
		Joseph Mugardi	9730131	0718849469	M			V.	
		Paul oghiambo	1180985	07129.9426	M				
		Abgal Muhanji	1123312	07 2379 2483	Į.Į.			V	1
/	10:	laurence mapin	004758	0710241784	A)			V.	7
		Francis IDIA Evidah	1069A838	0723444655	W		1	N/A	TEN.
		A1	25602716	01104307601	W		-	1	
V		1	10007 297	MXXX22913	m		1	~	
		Henry Anima.	28101052	0716261896	<u> </u>		LY		



## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

#### DIRECTORATE OF CLIMATE CHANGE

DATE 07/09/2022

PCRA

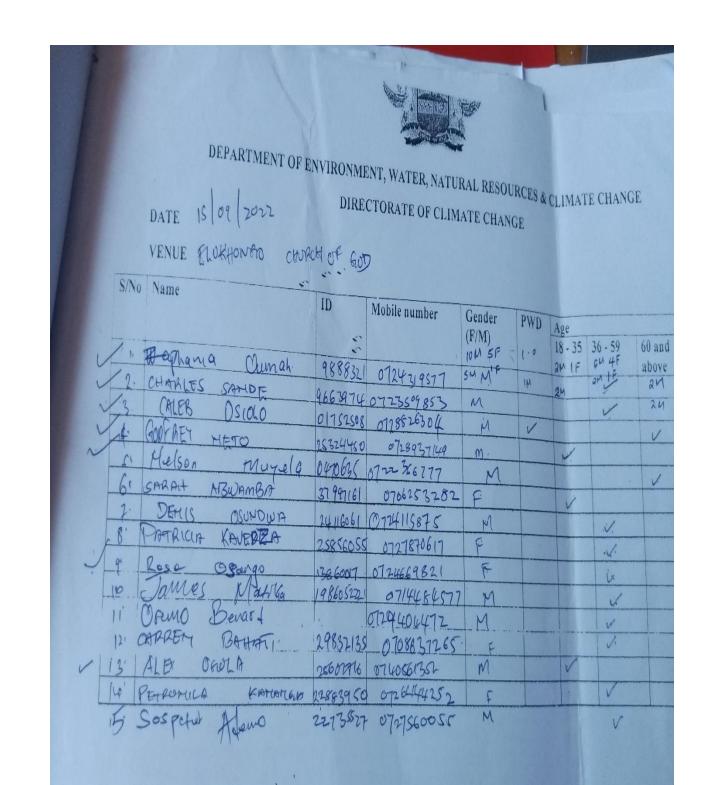
VENUE JCC changkali

S/No	Name		ID	Mobile number	Gender (F/M)	PWD	Age 18 - 35	36 - 59	60 and above
15.	Evance	Kusambo	1114115	0724215198	M		V		
16	Dismas	Kinagu	221597	0724215198	M			V.	-
/11	Alphace	141131	0253331	0721323614	M			1	V
The second second	Ebby	Kavere	20496972	078969035	F			V	
	Leakey	Amujani	38602327	0194973482	M	,	V.		-
20		Mapiri	00 441 53	0712924256	F			1	-
a.u	MULIELIT	TIM H							



DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES  VENUE:	
ACTIVITY: PARTICIPATORY RISK ASSESTED IN	
DATE:\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
ATTENDANCE LIST	
NO. NAME	

	-			ALLENDAN	CE LIST		
	N	O. NAME					
		- Lucine		WARD	ID. NUMBER	PHONE	SIGN
	1.	7001				NUMBER	SIGN
	-	1297NG	neah Oumal	n WiBungar	e accost		152
	2.	CHARLE	1 Spring	WRUNTER	10000321	0724319577	Arongh.
	3.	CALER	OSIDLO			0723909853	8-1
	4.	CENT	14 -166	W.BUNYDER		0728826704	78.
	5.	NELSON		W. BMSDE	25324450	0728937149	Assetti
	6.				0470635	07227/E777	America
-	7.	SAPAH	AB HAMBA	WI-BUHNERE	37997161	0706753287	80
1		DENIS	DSUNDWA	W. BUNTORE	24116061	0729115875	A
1	8.	PAIKICIA	+ KAVEDRA-	- W. Bunyare		0727870617	Dean .
1	9.	10-050 t	)songo	w. Roundono			Pa.
	10.	Tume	( DNA til	a W. Bryton.	1986 0017	0724669821	And I
	11.	Ofemo (P	m	Briting.	118602555	6714484577	mid
1	12.	GARREN	Delina.	1018 11		671940 447	10000
-	13.	MIGREN	BAHAY	NE BUNGOEZ	29832135	0708637285	Aus
-		ALEX	01:01-11	H-BUNTOR	-2-8 60327W	0100170011	1
-	15.	PELHOHILA	KAMAGA	WEST BUTTYURE	27882950	18771: 1.11 250	Thomas and
-	6.	SOCTE	us Adesm	W. Buryon	72776817	C/ NO TOTA NO 2	Manger
1	7.			1	01332	072756636	4500
1	8.						
1	9.						
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26			1 1 1				
27							
28	Samuel Street						
20			*	1			





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D	DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES											
V	VENUE: CHAMA KAIDKATO											
A	CTIVITY.	Prox -	HATIOHAL TRE	+54.07		*******						
		The second second		MUK.I								
D	ATE:Q	8 09 202	2									
	ATTENDANCE LIST											
NO	). NAME		WARD	ID. NUMBER	PHONE	SIGN						
1.				0,	NUMBER SOTI	The state of the s						
2.	MATILPA	ISANJA	MUHUPY	20265687	2-265681	Kaczys						
ź. 3.	Bilvestun		The state of the s	3523-16973	0717892171	B						
4.	ELIJAH	MUSEVE		10919367	50710379533	92 . 1						
5.	Solomon		MUHUNU	10916735	0726913976	A COL						
6.		JYAL'I	MUHUBU	1336929K	0721681803	4 × ×						
7.	FOEDDICK			20024898	072922265	1 Domas						
8.			E MUHUBU	6961199	0728 096858	18 hamas						
9	JULIUS	m Lava	vootund	6513712	0722481300							
10.		OHVSION O	ARS MUHUDY	8398449	67944090	0 Arg 1212						
1.	PHORIEK	Hmout	thos.	242618/3/	072687873千/	MANUE						
2. (	CHARON GO		169	40319651	0715114475							
3. 5. •	Massoys		milyon	14721199	0726642005	1						
6.	Carolyne	Atila	Muhude	30433030	072330442	TAN THE RESERVE TO THE PARTY OF						
7.	Miles and Additional Property of the Control of the	REMO	HAUHUD COV	27976799	6725404472	THE PLANS						
8.	WIHSTONE	MAMBA	CGV	29010712	5716261898	000						
9.		Okongo	MUHU DU		07/14/23/43 210305744	(20)						
0.		IGOVA	muhu de			Mr.L						
1.				21188428	07 04592246							
2.		711111111111111111111111111111111111111	mana y o,	2100 100	1070							
3.				RESORTER SE								
4.												
5.					H. Carlotte							
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## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

### DIRECTORATE OF CLIMATE CHANGE

DATE 8/09/20 32

VENUE (hamakholcho raluation army

S/No Name	ID	Mobile number	Gender	PWD	Age		
			(F/M)		18-35	36 - 59	60 and
1. MATILDA BANYA	26265687	0114780174	6 14 1 F 6		33	3 69	above 2
2. Bilventure Amulavo	36204698	01/1892/91	M		00	164.	03
3. TOM ANDEGA	1091936	7 910379523	N		V	d	
4. Fredrick Ichamasi	20024 898	0729223675	M			1	7
15 Joel Amblaya	6961199	0128696858	4	1		J	
6 Julius ways	65 13712	0727481309	M	V			
7. Patrick Amoke	1494143	0120878737	111			1	M
81-SHARON COLLTENG	4031961	0715114475	t		,	1	N
9 HICKSON MULIPA		0726642005	M		-V	V /	
16 BEH DREMO		0725404472	M			V	
11. BRENDA OKOTIGO	29010113	0717 1123 4 3	-			V	
12. Elyah Museve		0110319533	7		V	./	
13 Solomon Soura	122/0001	0126913976	M			V	
4 Afore Mayz	078098711	070305744	M		1,/	V	



## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE 8/09/2022

VENUE Chamalcholcho valughou gray

S/No Name	ID	Mobile number	Gender	PWD	Age		
			(F/M)		18 - 35	36 - 59	60 and above
15 Grid luyali	22390549	0727404936	M			1	
16 Javies Johnstone	8398449	0794410944	M			V	
11 carolyne Afila		079330449	A		1		
18. Mary lugova	Q8559173	0110129047	F			V	
The Contract of the Contract o	21188428	0104592246.	f		-	1	-
20 Winstone Afamba	881 N1028	10716201848	M		V		
·							



Along Luanda - Ramula Road, P.O.Box 35 LUANDA-KENYA, Cell: 0704213577, 0721559197.

VENUE:	MUMBIT	A CHU	rest =	F COO'
ACTIVITY	FITTICI	424 084	1210-	HUENDENT L CLOO,
DATE:	16109	7.825	- ACIC	OUSENDENT

	NO. NAME	LONDAJI	CELISI		
	- Thurst	WARD	ID. NUMBER		SIGN
	2 CATROCINES MUKOYA		24 cantos	NUMBER 0728455883	()
1	3. LYDIA A. MANDU	MWIBONX	186513655	171201C272	000
1	4. Tebias OTMAIL	MWIBONA	25839034	10741500447	a Ca
-	Selpher Kunga	Mulborg	1450458	0705558058	-21
-	Posomary (NOA)	mursont	9446250	0791786	200
	GOAZ ON TANGO	MWIBONA	6338529	0798685425	1
9		MURSITA	29489504	6710520948	111100
1	O. Aftred Inong	Mullona	28618814	0724461397	1
1:	1. GHARON OCHTENS	Goofficer	3262012	0708256012	
12	LWKION TIMONE	HOTERM.	7474742	0715114675	301
13	Brenda Akiny,	CSO		0720878737	Mary.
15	10011	E. Offra		074627913	Borgo
17.	The state of the s	Mujera		07/6281898	(A)
18.	THE INDUMING!	N w. 100na		0128756263	Marian
19.	FRANKLINEMUGANDA	MWIBONA	2 3423 872	071609998	Mark No.
20.	Rouben Church	Mulbona	30333135	012275(297)	
21.		Muisora	3295269	01 20 778877	Alex
22.	The 1 Per		30474140	0717298395	OH TO
23.	Miseph Karakacha 1	Mwlborg	33 201918	0710777797	AND THE STATE OF T
24.					
25.					
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27.					
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# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

DATE 16/09/2022 DIRECTORATE OF CLIMATE CHANGE
VENUE MUMbits church of God PCRA

		Mobile number	Gender	PWD	Age			Si
2. Pro 1 y ne Mulagy		1	(F/M) IIM 10 F	IM		36 - 59	60 and	21
BIPING NYGKOA	24597756	5728415883		14	IM IT	M 6F	above	-
3. Lydia Mando	95839027	07/130/6370	17			V	214	
4 Tobias otwal:		07930044	F	7	W	**		
s. Selphor Kungg.		0791786290	H F	V		-	/	
6 Rosemary Inday!	9446250		F			y		-
7. Boaz Oniang'o	6338529	07 22492 358	M		1		V	+
8 Wilson Anduqua	29489504	07/0520948	М	W	V			
9 Dorcus Anupi	23610814	072448161397	F	,		V.		
10 Alfred Ironda.	3262012	5 0 0 2 8 8 0 0 2	M		1			-
11 shavon Ochieug 2 Patrick Amoko		07 20878 737	F	-	\	1		
K. Istilies		0717112343	M	-	1	V		
13 Brenda Akinyi 14 Shem Injili	210179786	0741527913	M		V			



# DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

DIRECTORATE OF CLIMATE CHANGE

DATE 16/09/2022 DIRECTION OF GOOL'

PCRA

		Mobile number	Gender (F/M)	PWD	Age		
15: Windone Hamba 16 Klice Musuloup 17. Frankline Muganda. 18. Reuben Chumba. 19. Charles Avedi 20 Caren Kyiela. 21 Jasoph Karakacha. 22. Moses Ombyoma	20333135 20333135 23295561 30494140 33296761	0716261898 0728756263 0716099994 0727756892 0720778877 0717298395 07107797 97	M F M		V	36 - 59 V	60 and above



## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

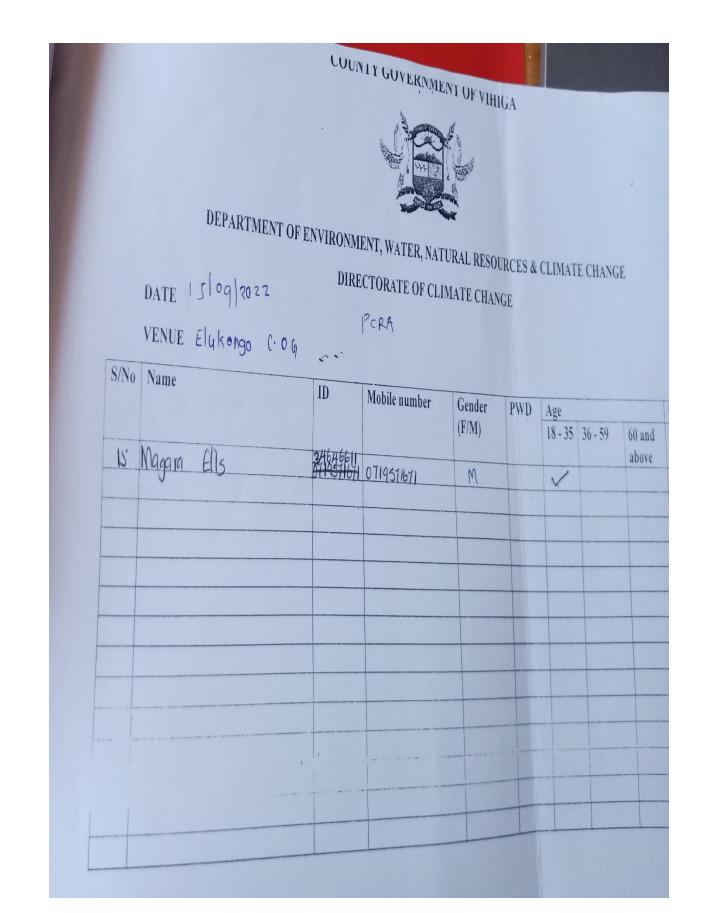
#### DIRECTORATE OF CLIMATE CHANGE

DATE (5/09/2000

VENUE ELUKONGO Offord of 900.

PCRA

	S/No	Name	TD						
		T.W.II.	ID	Mobile number	Gender	PWD	Age		(
					(F/M)		18 - 35	36 - 59	60 and
	-	Oto-Name and Articles			3 13		16	123	above 02
V	7	BARNABAS NGANYI	2291634	07580116733	2M4		11	11/1	02
	10	RAFAEL OYOMBE	8018500	0715372937	W	1			/
L	3	ENOCK OCHOLA	27981778	0719857843	M		V		
L	4	AFANDI SHARON	13369351	0728506040	F.			V	
1	5	ELISHAMA NJELI	6336186	0743067483	€ W				V
	6	SYLVIA MIDEVA	31033336	0718206326	F		1		
	7	ASITWA HARRISON	2779029	07086701191	M		V		
1	8	ESTHER INDATA	13735025	0724994266	F			V	
V	g	PATRILY AMOKE	7494743	672087\$8737	M			V	
	10	IMBANGA GERHENE	326620092	0706491110	M		V		
		DAVID MAKOHA	32581406	0758150689	M		V		
	-	ALEX GUMA	23 536478	0752679394	M			~	
		MMANUEL MWMYALI		0732849694	M			/	
	41		28624618	0707415624	M		1		



LUMYDA GOUTH

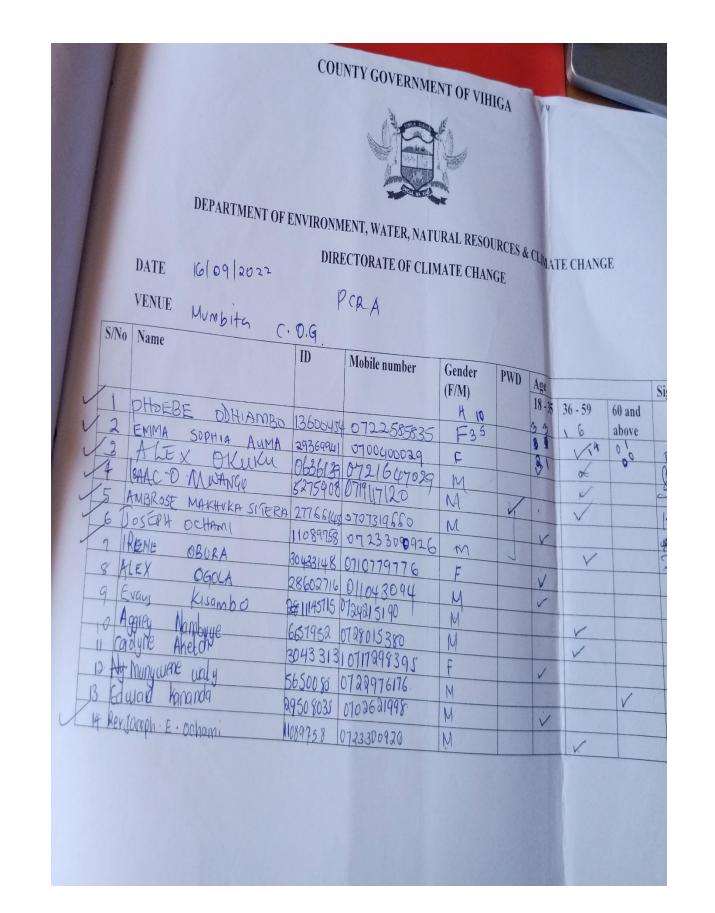
#### COUNTY GOVERNMENT OF VIHIGA



DEPARTM	ENT OF ENVIRO	NMENT, WA	TER,	ENERGY	& NATURAL RESOURCES
VENUE:	MUMBITA	CHURCIT	OF	GON	TO TO TOUR ON THE

ACTIVITY: PCRA - NATIONAL TREASURY
DATE: 16/09/2022

					2 2131		1
	NO.	NAME		WARD	ID. NUMBER	PHONE NUMBER	SIGN
~	2.	ALEX.	SOPHIA AUMA	LUAMBA SOUTH	293699111	0100400029	Quy!
1	4.	AMBRO	SE MAKHUKA	LUANDA SOUTH	277 (61/12		ATTO
+	5.	AGGRET	= Y. DAHLAMB	LUANDA SOUTH	6657952	0428015380	Dhun
	6.	REVIOSE	PHE OCHAMI	LUANDA SOUTH	1108976	0723300926	BOS .
V	7.	SAAC .	O. MWANZY	LUANDA.S.	5275908	0719117120	low
-	3.	Trung	were wall	Luando South	71	0722976176	
0.5	0.	dward	ALUMBB 1	LUANDA SOUT	TO TO TA	0729094317	
-	-	arolyn	P AKPTCH	Luanda South		0702621998	1
1:		RENE	OBURA	LUAHDA SOUTH		0710719776	
-	3. A	LOX	OGOLA	LVANDA SOUTA	2860276	011043094	00
15		TAUS	Kuanso	I naid sont	1114015	0729215198	1
17	-						
18.	-						
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23.	-						
25.	-						
26.	1						
201	+						<b>\\\</b> 2





TXMBUA

DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES

VENUE: SISSA COTTAGAS

ACTIVITY: PARTICIPATIONY PLISE ASSESSMENTI

DATE: 25th May 2522

-			183			
NO		- '	WARD	ID. NUMBER	PHONE NUMBER	SIGN
1.	Amini	JUMA	BANTA	13735687	0721354927	tion
2.	parrell	- Lariter	BANJA	13633178	0723302079	ACIOP .
3.	Jane	A90369	118	13580290	0721432946	Zyosti.
4.	Isaac	Orsere	Bania	29976148	0791811694	COA '
	DAMAI		BANTA	25236876	0708313690	1
6.	EVELL			13737599	0727828303	Euryangs
7.	PHANUE		BANTA	7350027	0704251648	a
8.	VICTOR	MUDAVA:	RANSA	21964513	0718926137	les
9.	EVERLIN	E JEDNOE		25682266	0717375629	3M
10.	DUNCAN	Miaka	Banja		0726778122	A
11.	KATRICU					1
12.	JAMES	KAPII	TAMBUA		6723245119	Mount
	Morgon	Mugada	JAMBON	20797389	0723982723	WILLS !
15.	Graham	Bureão	Tambuá	33541414	0728230863	Impreyors.
16. (	BRACE PI	A. BUNYINDA	TAMBUA	2066373	The state of the s	Dungado
	DUGLAS	MUTAMB		2123543	0720299433	
	3 catrice	Kinudy		417844 D		
19.	Basilisa	L GIMOGI	TAMBUA	25782551		
20. M	LAUK AB	AMALIA ALLAO		31735031	0707 902676	000
24		NAYA FRED		02357855	2792 X438/15	- House
77 //		N ANAYA	TAMPUA	4178776	072244384	+ 70112
23. N	IONICA	ODARI	TAMBUA	1183031	15724880702	
24. W		CHANLILWA	TAMBUA	7893986	0721565154	the thing
	AMES N		Simbor	25908538	J1441186	Male
26.	DMINIC	MADIGA	TAMBUA	26630498	075833046	4 Aug
27.	ENVETH	NOALO	TAMBUA	21517325	0727956018	5 the
28 X	Shah p	-100	RANJA -	27971 41	L 07267914	, D
29.	I Was I	FALLINE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1010 6	07/626/89	d do
Y	Jan 10	e Agensa	WARD FOR	28 (0,0)0	1 2010-6.04	9





### DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE 20/05/2022

PCRK

TAKIBUA.

VENUE SOSSA COHEGES

S/No Name	ID	Mobile number	Gender		1.00		
			(F/M)	PWD	Age 18 - 35	36 - 59	60 and
1. Colorum Brasa	33541414	0728230863	9449 M34	-	04	4 4	aboveDI
2. DOUGLAS MUTAMR/ 3. BEATRICE KIRUNDU	2123543	6726299433	M	V		V	
4 BASILISA GIMOGI	478440	0723529646	t t			V	
I REY DAMEN ANAYA	4178756	0722443945	M	-		V	V
2. JAMES NYAMERA	11835131	0724680706	F			V	
CIN	2810/052	0716261898	M		V		
9. GRACE BUNYINDA	2060373	0771655152	F	+-	V	1	
10 MAUN ABDALLA	31735031	0707909676	M		V		
	2 663 2498	0721565154				/	
13 KENNETH NOALG	7 15 17325	0727956018	M			V	
14.			1,1				

Mungoma

#### COUNTY GOVERNMENT OF VIHIGA



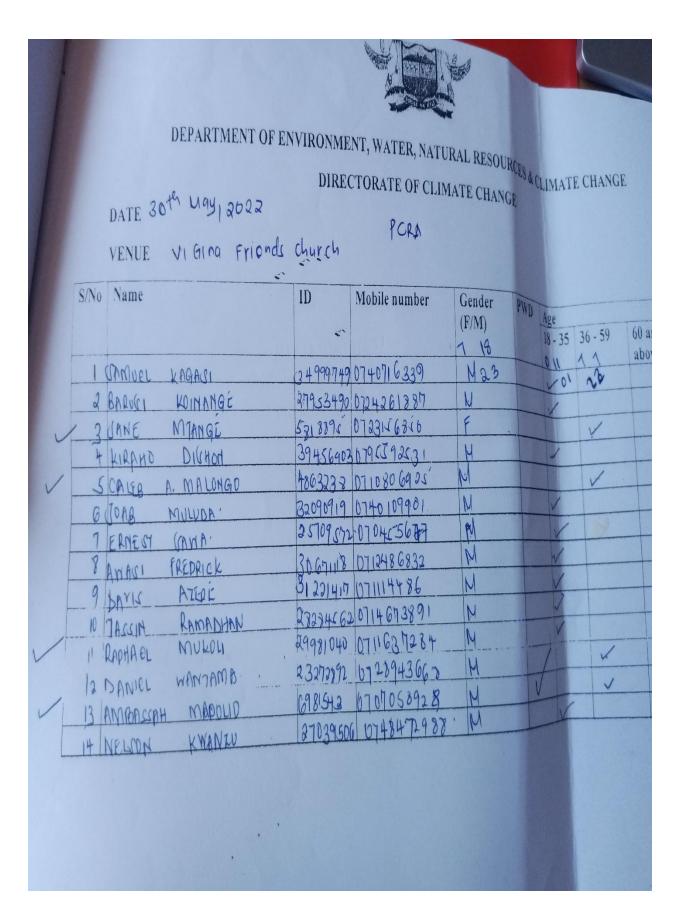
DEPARTMENT OF ENVIRONMENT	, WATER,	ENERGY	&	NATURAL	RESOURCES
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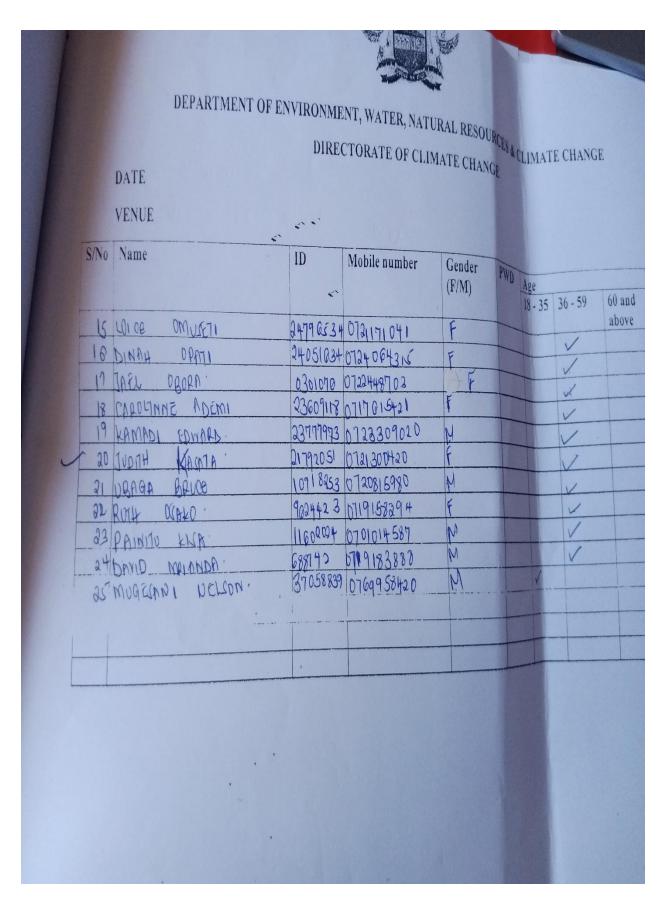
VENUE: VIGIHA FRIENDS CHURCH

ACTIVITY: PARTICIPATORY RISK ASSESSMENT

DATE: 30TH MAY, 2022

	NO.	. NAME		DESIGNATION	ID. NUMBER	PHONE	SIGN
1	1	- CA 0 -				NUMBER	A
1	2.	SAMUEL	10.1/1-1	MEMBER	34999749	0740716339	Con
1	3.	BARUSI	KOINANGE	LABOUR MOV. REP	21953490	0724261889	Burde
	4.	KIRAHO	MTANGE	MUNGORA WCC	5818895	0772156950	Hoper
-		PAKEB		MEMBER	39456903	8795592531	
	5.	JOAR	A. MALONG		4863738	0700806924	5 Husq.
5		ERNES 1	MULUDA	MEMBER	32090919	0740109901	ME
- 8		AWESI	SAWA	MIMBER	25709572	0704556577	Descar.
9		The second second second	AZERE	+00TH	30671118	0717181832	Tolothy
		THIS IN	RAMADUAN	Member		0714486	Tell
11		2 ATHAE			28284562	0714673891	244
12		) AN IEL	WANYAWA		29981040	0711639284	A
13		1		HOA	23272592	0728943668	motoria.
15	- '	16161		O MEMBER	6981543		The state of the s
1		YELSON.	KWATIZI	Tou7+1	27039506	0748472984	to
16.				WARD OFFICE "	24796534	0721171041	Do
17.	10	INAH	OPATI	SDA	24051634	0724064315	NO -
418.	1	AEL	OBORA	FARMER	0301076	072214870	2 80
219.	0	AROUN	E ADEMI	-100111	23609118	10117615421	THE STATE OF THE S
₹ 20.	K	AMAD	ROWARD	CHERCH	23777972	0223309020	Deur.
21.	13	HOICH	NASATA	W. C. C	21792031	0721300420	7
422.	11)	BATTO		ENVIRONMENTIST	10918253	072087598	a whier
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DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES

VENUE: GHAMAKATHON PACTIVITY: PARTICIPATORT RISK ASSESSMENTT-HT

DATE: 07/09/2020

N	O. NAME	WARD	ID. NUMBER	PHONE	SIGN
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. 1.	BEATRICE KIVIHI	NMARAGOU	6140390	0722217454	Bilo
2.	harperis Ayali	N/ Marageli	2566BOD	The same of the sa	Destro
3.	VINCENT NOONGA	NIMARAGOLI	343646733	10795945365	9
4.	LILLON SWA	Maragoy	13284330	D1276B201	
5.	CAREN ALUXA	NIMARAGOLI	35747010	0728996 26	QL .
6.	JUSEPHILI KETA	NMARAGOL	12701527	0721213477	Bus
7.	AUSTIN AKIHAMGA	1111111111111	28980354	0718881738	
8.	PAIRION AMONE	tto TECH.	ENT PROPS	0720818737	Como,
9.	Corren Olei	Grennonment officer	32839837	0759172066	
10.	James MMBAZI	NATH MARROLL	13368724	0727 79138	
11.	Henry . S. Anyla	r. GV	10007297	072882291	Batta
12.	Ra Diemo	CGV.	2976799	0725404472	(Harrie)
13.	Eurs Kizambo	CGU	1145715	0727215798	THE CHANDA
15.	BRENDA OKONGO	150	29010713	0717112345	CHARLES
-		NIMARAKAL	9800268	0725964574	( 880
16.	JANET ONCIAYA		24148284	0710475653	Cur
17.	BERTAE MIHAGE	NI MARAGOLI	वउ।वन्गर	074474107	EA
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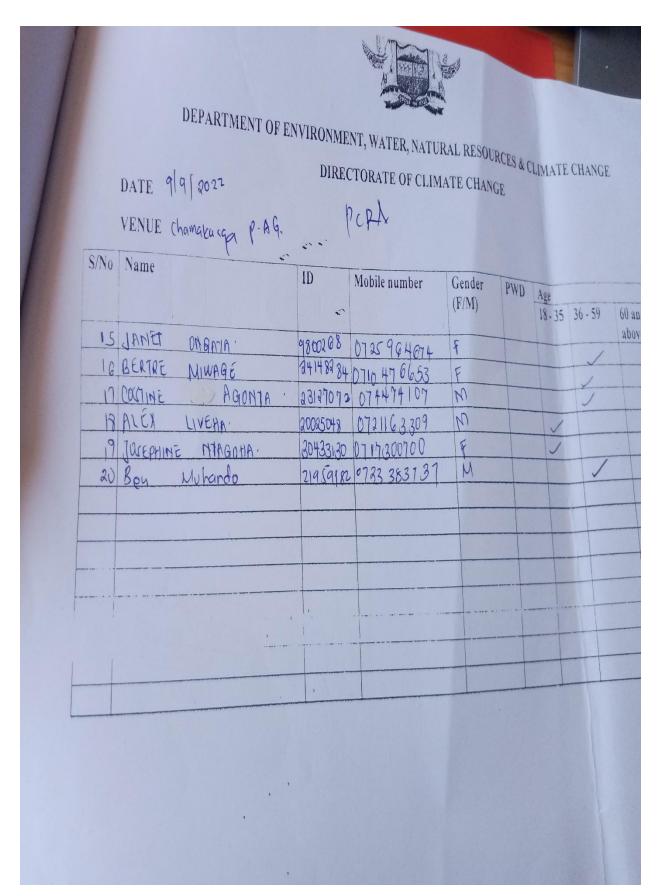


## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE DIRECTORATE OF CLIMATE CHANGE

DATE 9 09 2022

VENUE Chamakanga PAG church - Mago

	S/No	Name	ID	Mobile number	Gender (F/M)	PWD	Age		
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/	6 1	OSEPH 1- KETA.	12701527	0721213477	W			~	
	7 F	NOTIN AKIHAMBA		0718881735	W		1/		
	8 1	PATRIC AMORE		0720 878731	W			1	
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	DEPARTMENT OF ENVIRONMENT, WATER, ENERGY & NATURAL RESOURCES								
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	ATTENDANCE LIST								
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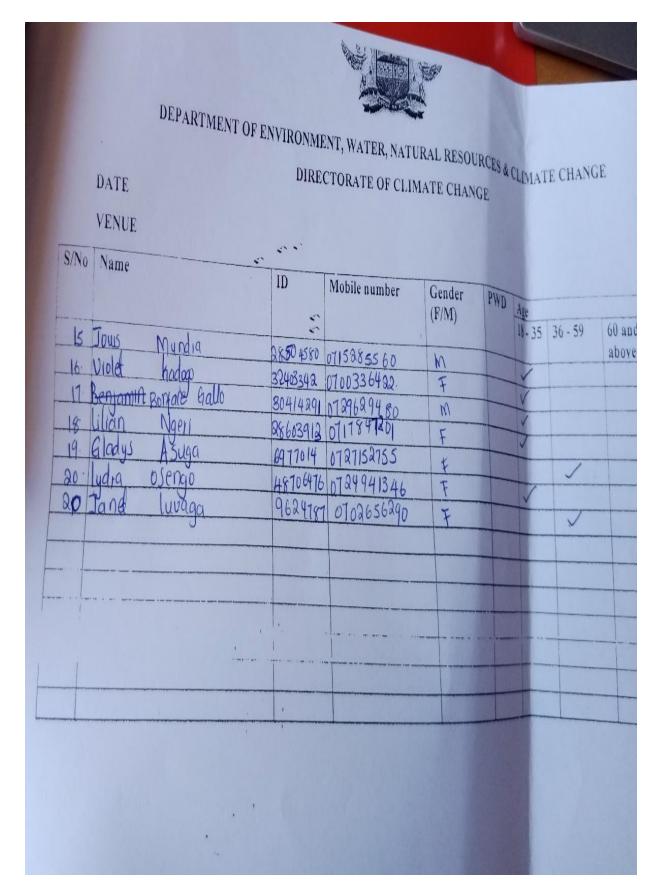


## DEPARTMENT OF ENVIRONMENT, WATER, NATURAL RESOURCES & CLIMATE CHANGE

DIRECTORATE OF CLIMATE CHANGE

DATE 9/09/2022
VENUE CHAMAKASS P.A.9

S/No	Name	ID	Mobile number	Gender	PWD	Apa		Sig
				(F/M)		18-35	36 - 59	60 and above 01
/1	SAMMY JAIKA	20749381	6 0722434551	IM6		11	OVA	01
12	RACE KAYAYA	25916073	0718672533	F.		1		
/3	EDWARD LOVEMBE		0724238425	M	V		1	
14	ALEX KENDGO	2168372	6 0724746770	KI			V	
6	JOY NEWMA	28673057	0716766157	F		V	1	
6	MODERTA SHISTALI	26240823	071486 2405	F		V		
71	MORGAN INVANYA	29354716	07044 88282	M		V		
90	ulius Kadenge		0726301216	M M			/	
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14 M		St 552710	070290308	M		·		



#### **Annex 5: Editorial Team**

NAME	DESIGNATION	
1.	Dr. Richard Boiyo	Chief Officer, Department of Environment,
	Energy, Natural Reso	ources and Climate Change
2.	Winstone M. Atamba	Director – Directorate of Climate Change
3.	Hudson Mukanga	Environmental Planner

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1.	Dr. Richard Boiyo	Chief Officer, Department of Environment,
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2.	Winstone M. Atamba	Director – Directorate of Climate Change
3.	Hudson Mukanga	Environmental Planner