

THE UNITED REPUBLIC OF TANZANIA PRIME MINISTER'S OFFICE

THE NATIONAL OPERATIONAL

GUIDELINES FOR DISASTER MANAGEMENT DEPARTMENT

(Second Edition - 2014)

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PREFACE

Tanzania is vulnerable to recurring natural and man-made disasters that affect lives, livelihoods, destroy infrastructure and cause food insecurity and health problems. The frequency and magnitude of both natural and man-made disasters are on the rise. Their impacts not only affect individuals and their property, but also lead to costly damage to public infrastructure and property. This in turn hamper the overall development process and undermine national and international efforts to reduce poverty such as the National Strategy for Growth and Reduction of Poverty (NSGRP II), the National Development Vision 2015 and the Millennium Development Goals (MDGs).

Persistent vulnerabilities and associated risks require a well organized multi sector approach to strengthen national disaster management structures in efforts to minimize risks, prepare for potential disasters and support the building of sustainable capacities of the stakeholders to manage disaster response.

The reviewed National Operational Guidelines for Disaster Management (NOG) have been prepared to address the current needs and responsibilities of all stakeholders in disaster management. They provide an overall framework within which government ministries, departments and agencies, non-governmental organisations, international agencies and volunteer organisations will operate to prevent, prepare, mitigate and respond to emergencies and disaster situations in order to reduce disaster impacts and ensure a safer, resilient and more sustainable Tanzanian society.

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The guidelines place a particular emphasis on climate change, food security and nutrition, gender, psycho-social issues, water supply and sanitation, and the environment. While the guidelines essentially cover the response part of disaster management, they nevertheless address issues related to prevention, mitigation, and preparedness-within the current Disaster Risk Reduction (DRR) framework. Furthermore, the guidelines recognise the linkages with international and regional disaster risk reduction strategies and plans.

It should be remembered that planning for effective and efficient coordination mechanisms for disaster management is an ever-evolving process. The Prime Minister Office (PMO), through the Disaster Management Department (DMD) wishes to share this plan with all relevant stakeholders in order to obtain feedback and seek their active collaboration. Any comments or suggestions will be highly appreciated and reflected in future versions of this document.

ACKNOWLEDGEMENTS

The National Operational Guidelines for Disaster Management (NOG, second edition) were prepared through a consultative process among stakeholders at all levels. The initial review of the guidelines was undertaken by Mr. Wilhelm Kiwango, a consultant from the University of Dodoma. The Disaster Management Department (DMD) under the Prime Minister's office (PMO) coordinated and facilitated two national level consultative workshops with the aim to provide inputs and comments to the draft guidelines. The review process was funded through the Disaster Management Project under the UNDP-United Nations Development Assistance Plan (UNDAP).

I would like to put on record the significant contributions made by stakeholders representing ministries and central government agencies/ departments, Local Governments Research and Academic institutions, UN agencies, International humanitarian organisations, Civil Society Non-governmental Organisations, Faith Based Organisations, Organisations, The Private Sector, and the Media for their invaluable support and contributions during the review process: their patient reading of various drafts, constructive criticism, guidance and suggestions in the review process which helped to improve the content and presentation of these guidelines.

Special thanks go to the consultant for his tireless efforts in the review process. I would also like to express my sincere gratitude to the DMD staff for their tireless efforts in providing technical and material support to the consultant and stakeholders.

Lastly, but not least, I wish to sincerely acknowledge the financial support provided by UNDP-UNDAP project for this review. It is hoped that this support will prove useful in the revised NOG for Disaster Management in Tanzania through effective and efficient coordination mechanisms to prepare for, prevent, mitigate, respond and manage emergencies and disasters.

DR. FLORENS M. TURUKA

Permanent Secretary Prime Minister's Office.

ACRONYMS

CBO Community Based Organisation

CSO Civil Society Organisation

DIDMAC District Disaster Management Committee

DMA Disaster Management Authority
DMD Disaster Management Department

DOE Department of Environment
DRR Disaster Risk Reduction
EAC East African Community

EAC-DRM East African Community Disaster Risk and Management

Strategy

EMA Environmental Management Act (2004)

EPRP Emergency Preparedness and Response Plans
EWURA Energy and Water Utilities Regulatory Authority

FBO Faith Based Organisation

HFA Hyogo Framework for Action (2005-2015)

HIV/AIDS Human Immunodeficiency Syndrome/Acquired

Immunodeficiency Syndrome

ICP Incident Command Post

MDG Millennium Development Goals

NADMAC National Disaster Management Committee

NAPA National Adaptation Plan of Action

NEMC National Environmental Management Council

NGO Non-Governmental Organisation

NSGRP National Strategy for Growth and Reduction of Poverty

NSA Non State Actors

PMO Prime Minister's Office

PMO-RALG Prime Minister's Office Regional Administration and Local

REDMAC Regional Disaster Management Committee

Government

RVF Rift Valley Fever

SADC Southern African Development Community ESIA Environmental and Social Impact Assessment

SOP Standard Operating Procedures

TC Technical Committee

TCG Tactical Coordinating Group

TEPRP Tanzania Emergency Preparedness and Response Plan

TMA Tanzania Meteorological Agency

TSh Tanzanian Shillings

UNICEF United Nations Children's Fund

UNISDR United Nations International Strategy for Disaster

Reduction

VIDMAC Village Disaster Management Committee

VPO Vice President's Office

WADMAC Ward Disaster Management Committee

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GLOSSARY OF TERMS

Accident: A man-made transport type of disaster comprising of air, marine, road, and rail crash which suddenly destroys life, property and quite often the environment;

Assessment: An evaluation or appraisal for making a judgement about the problems, needs, priorities, resources or capacity, of a specific system, community or region. It may be carried out through direct observation, review of literature, interview or survey.

Climate change: refers to a change in climate which is attributed directly or indirectly to human activity which alters the composition of the global atmosphere and which is additional to natural climate variability observed over comparable time periods.¹

Command: The authority and responsibility of an officer to direct the actions of the authority's resources (both personnel and equipment).

Community Participation: refers to the active involvement/engagement of communities in all aspects of assessing, planning, implementing, monitoring and evaluating disaster management projects/activities in the disaster management cycle.

Conflict: Disagreement between two groups which can cause social and economic disruption in a community, e.g. war, insurgency from radical or

 $^{^{1}}$ Article 1. United Nations Framework Convention on Climate Change.

political groups or civil unrest such as student or mob activity;

Control: The process of influencing the activity of a service or group of services, by setting tasks, objectives or targets, without necessarily having the authority to give direct orders.

Co-ordination: The process of systematically analysing a situation, developing relevant information, and informing appropriate command authority of viable alternatives for selection of the most effective combination of available resources to meet specific objectives.

Crew Commander: An officer responsible for the supervision of specific number of personnel (The Crew) assembled for a specific assignment such as search and rescue. The number of persons in a crew should be 3-7.

Cyclone: A condition of the atmosphere characterized by a central area of pressure much lower than that of surrounding areas, and a system of winds blowing inward and around (clockwise in the southern hemisphere and counter-clockwise in the northern hemisphere). It is also called a low-area storm. It is characterized by high temperature, moist air, abundant precipitation, and clouded sky.

Disaster: refers to a serious disruption of the functioning of a society, community or a project causing widespread or serious human, material, economic or environmental losses, which exceed the coping ability of the affected society, community or project using its own resources

Disaster management cycle: refers to the ongoing process by which all stakeholders including government and non-governmental agencies and organizations plan for and reduce the impact of disasters, react during and immediately following a disaster, and take steps to recover after a disaster has occurred. It includes prevention, mitigation, preparedness, response and recovery. Appropriate actions at all points in the cycle lead to greater preparedness, better warnings, reduced vulnerability or the prevention of disasters during the next iteration of the cycle.

Disaster Risk Reduction: the concept and practice of reducing disaster risks through systematic efforts to analyze and manage the causal factors of disasters, including through reduced exposure to hazards, lessened vulnerability of people and property, wise management of land and the environment, and improved preparedness for adverse events.

Drought: refers to the naturally occurring phenomenon that exists when precipitation has been significantly below normal recorded levels, causing serious hydrological imbalances that adversely affect land resource production systems

Early Warning System: A chain of information communication system to monitor and warn of the threat of disasters ahead of time, to trigger timely, appropriate, preventive measures. Such a programme involves monitoring at household, community, district, and national levels.

Earthquake: refers to the sudden release of slowly accumulated energy along tectonic plates that make up the earth's crust. They represent a particularly severe threat due to the irregular intervals between events, the

lack of adequate predictive models, and the associated hazards which include: ground shaking; vertical or horizontal fault movements; landslides, and liquefaction (amplification of ground shaking in areas of unconsolidated materials and high water tables.

Emergency: A situation generated by the real or imminent occurrence of an event requiring immediate attention by the affected community using its own resources.

Emergency public information: This involves developing and delivering timely and accurate messages and instructions to the public throughout an emergency or disaster. It informs the public on what is happening, how the government is responding and what the public should do to maintain its own safety.

Epidemics: A pronounced rise of cases of a disease (parasitic or infectious) often ending in death or disability as a result of exposure to a biologically active agent;

Evacuation: This is the movement of people to a safe area from an area believed to be at risk when an emergency or disaster situation occurs.

Explosion: A violent and destructive shattering of something such as a bomb blast or liquid petroleum gas;

Fire: Uncontrollable burning of fuel or other materials that destroys life and property;

Flood: Significant rise of water level in a stream, river, lake, ocean etc that can lead to destruction of life and property.

Gender: refers to the social differences between females and males throughout the life cycle that are learned, and though deeply rooted in every culture, are changeable over time and have wide variations both within and between cultures. "Gender" determines the roles, power and resources for females and males in any culture.

Gender equality means that each gender has equal conditions for realizing their human rights and potential, to engage in political, economic, social and cultural development, and benefit from the outcomes.²

Geological Hazard: Geological process or phenomenon that may cause loss of life, injury or other health impacts, property damage, loss of livelihoods and services, social and economic disruption, or environmental damage.

Guiding principles: refers to fundamental values, rules and norms that guide all governmental ministries and agencies, as well as non governmental agencies and organizations in implementing disaster management activities in all circumstances irrespective of changes in authority, goals, objectives, strategies or resource availability

Hazard: refers to a potentially damaging physical event, phenomenon or human activity that may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation.

² UNDP Gender Equality Strategy 2008-2012.

Incident Commander: The officer having overall responsibility for managing the incident and dictating tactics and resource management.

Incident officer: An officer responsible for incident management from various agencies/organisations. In an emergency/disaster situation involving more than one agency/organisation, incident officer remain under the control of the overall Incident Commander.

Incident Management Plan: A strategic plan prepared by the Incident Commander that identifies the broad objectives of the emergency incident activities, and the basic manner in which operations should be conducted. At minor incidents this may be verbally conveyed to officers on scene; however, at larger incidents the plan should be documented in written format

Incident: An occurrence or event, either human-caused or by natural phenomena, that threatens human welfare, environment or security of the country and that requires action by emergency response personnel to prevent or minimise loss of life or damage to property and/or natural resources.

Landslides: A landslide is a down slope transport of soil and rock resulting from naturally occurring vibrations, changes of water content or removal of lateral support;

Mass Care: All actions taken to protect evacuees and other displaced victims from the effects of an emergency or disaster. It includes the provision of temporary shelter, food, medical care, clothing and other essential life-support needs to those displaced because of a disaster or threat.

Mitigation: Measures taken to reduce the loss of life, livelihood and property by disaster, either by reducing vulnerability or by modifying the hazard, where possible.

Natural Hazard: Natural processes or phenomenon that may cause loss of life, injury or other health impacts, property damage, loss of livelihoods and services, social and economic disruption, or environmental damage.

Pest infestations: Increase in pest numbers due to ecological factors e.g. temperature, monoculture of crops, new pest species, favourable weather patterns, and migration. This leads to excessive damage of plants and harvested crops, consequently leading to food shortages, famine and economic stress;

Preparedness: Measures taken to enhance the abilities of individuals, communities, and businesses to respond to a disaster. Disaster simulation exercises, disaster-preparedness training, and public education are examples of preparedness activities.

Prevention: Measures aimed at stopping a disaster from occurring and/or preventing such occurrence having harmful effects on communities (or groups of individuals) such as vaccination programmes by the health sector.

Recovery: Those activities necessary to provide a rapid return to normalcy both for the affected community and for those involved with the response.

Response: All activities taken during or right after a hazard that address the immediate and short-term effects of an emergency or disaster. Response

includes immediate actions to save lives, protect property, and to meet basic human needs.

Risk Assessment: A methodology to determine the nature and extent of risk by analyzing potential hazards and evaluating existing conditions of vulnerability that together could potentially harm exposed people, property, services, livelihoods and the environment on which they depend.

Search and Rescue: This includes locating, extricating and providing first aid to victims trapped in collapsed buildings, or other structures, aircraft, train, road and marine accidents. It also involves providing immediate medical treatment to the seriously injured on site and transportation to medical facilities.

Sector Commander: An officer tasked with responsibility for tactical and safety management of a clearly defined part of an incident. Subject to objectives set by the Incident Commander, the Sector Commander has control of all operations within the sector and must remain within it.

Support Agency: Any central government department or agency designated to assist a specific lead agency with available resources, capabilities, or expertise in support of the national response operations under the co-ordination of the lead agency.

Technological Hazard: A hazard originating from technological or industrial conditions, including accidents, dangerous procedures, infrastructure failures or specific human activities, that may cause loss of life, injury, illness or other health impacts, property damage, loss of

livelihoods and services, social and economic disruption, or environmental damage.

Telecommunication Resources: refers to personnel, equipment, materials, information, training, radio-frequency spectrum, network or transmission capacity or other resources necessary for telecommunication.

Tsunami: Refers to series of ocean waves generated by sudden displacements in the sea floor, landslides, or volcanic activity. The tsunami wave may come gently ashore or may increase in height to become a fast moving wall of turbulent water several meters high. Although a tsunami cannot be prevented, the impact of a tsunami can be mitigated through community preparedness, timely warnings, and effective response³.

Volcano: A violent expulsion of the molten material, magma, and gases at high pressure from inside the molten earth through the crust.

Vulnerable Groups: Categories of disaster affected persons, or displaced persons, with special needs, invariably defined to include: unaccompanied minors, the elderly, the mentally and physically disabled, victims of physical abuse or violence and pregnant, lactating or single women.

³ National Oceanic and Atmospheric Administration (NOAA).

CHAPTER ONE

1. INTRODUCTION

1.1. Authority

The National Operational Guidelines for disaster management are prepared according to the Disaster Relief and Coordination Act No. 9 of 1990⁴ which also outlines the agencies responsible for its preparation and implementation.

The Act derives its powers from the Constitution of the United Republic of Tanzania (1977). The Constitution empowers the President (article 32) to proclaim a state of emergency if there is imminent occurrence of danger or disaster, which threatens the communities or part thereof in the United Republic of Tanzania.

At the regional and district levels, the Regional and District Commissioners are the appropriate authority to declare a regional and district disaster or emergency situations respectively.

1.2. Background information

1.2.1. Location

The United Republic of Tanzania is located in Eastern Africa between longitude 29° and 41° East, Latitude 1° and 12° South. It is bordered by Kenya and Uganda to the North, Rwanda, Burundi and The Democratic Republic of Congo to the West, and Zambia, Malawi and Mozambique to the South. The country's eastern border lies in the Indian Ocean (Figure 1).

⁴ The Disaster Relief and Coordination and Act No. 9 of 1990 is currently under review.

1.2.2. Land Size and topography

The country lies on an area of 945,000 sq.km of which 884,000 sq km is land mass and 61,000 sq. km is water (lakes, rivers and seashore). The land altitude range from 0-1500 metres above sea level and has three physiographic regions: the Islands and the coastal plains to the east, the inland saucer-shaped plateau, and the highlands. In the north and northeast the high plateau leads to distinct volcanic mountains among which are mountains Meru and Kilimanjaro.

The Great Rift Valley runs from north east of Africa through central Tanzania forming two massive scarps of east and west rift valley arms, commonly affected by earthquakes. It runs from the Red Sea/Gulf of Aden/Afar triple junction in the north to offshore Tanzania and Mozambique in the south. The rift bifurcates around Lake Victoria into the Eastern and Western branches.

The valley is dotted with unique lakes, which include Lakes Rukwa, Tanganyika, Nyasa, Eyasi and Manyara. The uplands include Udzungwa, Livingstone, and the Ufipa plateau forming the southern highlands. The Usambara, Pare, Meru, Kilimanjaro, the Ngorongoro Crater and the Oldonyo Lengai, all form the northern highlands. From these Highlands and the central saucer plateau flow the drainage system to the Indian Ocean, Atlantic Ocean, Mediterranean Sea and the inland drainage system.

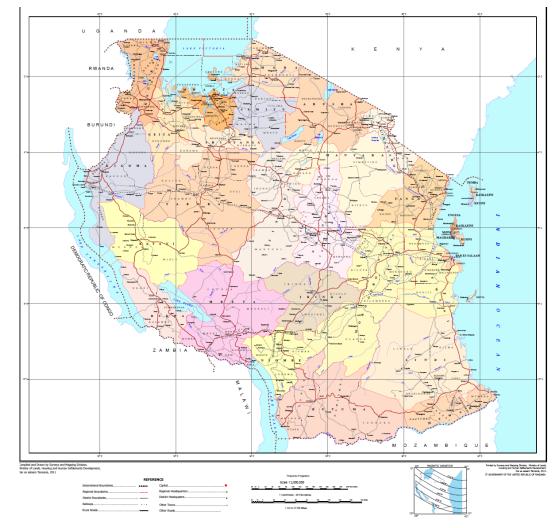


Figure 1: Tanzania: Location and Administrative Map.

Source: Ministry of Lands, Housing and Human Settlement Development, 2012.

1.2.3. Climate

Tanzania is characterized by tropical type of climate with unimodal and bimodal rainfall regimes. The unimodal rainfall regime is typical for the Southern, Central, Western and South-Western part of the country where rainfall is more pronounced during the month of November through April.

The Bimodal rainfall regime is typical for area around Lake Victoria Basin, North-Eastern Highland and the Northern Coast and is characterized by two distinct rainfall seasons, October – December (OND), and March – May (MAM) seasons. Mean annual rainfall varies from 550 mm in the central part of the country up to 3690 mm in some parts of South-Western Highlands. Spatial distribution of mean annual rainfall is presented in

Figure 2.

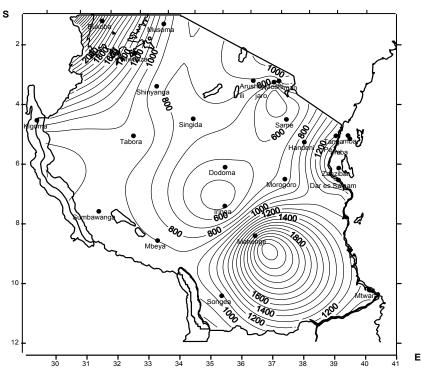


Figure 2: Spatial distribution of mean annual rainfall (1970 – 2000).

Temperature varies according to the geographical location, relief and altitude. Along the coast and in the off-shore islands the average temperatures ranges between 27°C and 29°C, while in the central, northern and western parts temperatures range between 20 °C and 30°C.

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⁵ Chang'a L. B., Yanda P. Z., and Ngana J. (2010b). Indigenous knowledge in seasonal rainfall prediction in Tanzania: A case of the South-western Highland of Tanzania. Journal of Geography and Regional Planning, Vol. 3(4), pp. 066 – 072.

Temperatures are higher between the months of December and March and coolest during the months of June and July. In the South-Western and North-Eastern Highlands, temperature occasionally drops below 15°C at night (URT, 2008⁶), and in the cold months on June and July sub-zero temperatures can also be experienced. Spatial patterns of mean annual maximum (Tmax) is presented in Figure 3.

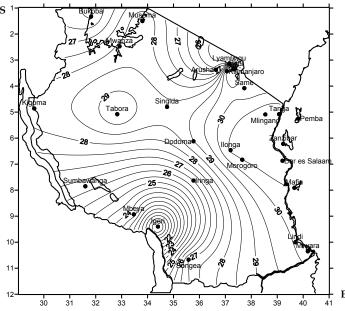


Figure 3: Mean annual maximum temperature (°C), 1970-2000.

1.2.4. Population and Social Economic characteristics

According to the National Population and Housing Census held in August, 2012 the population of Tanzania Mainland reached a total of 48.9 million people, out of which 51.2% are females and 48.8% are males⁷. The population growth rate over the period 1988 – 2002 was 2.9% per annum with a projected decrease of 2.5% in 2025. The population density has increased from the national average of 26 people in 1988 to 39 people per

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⁶ URT (2008). State of the Environment Report 2008. Vice President's Office, Division of Environment, Dar es Salaam.

⁷ The population as of December, 2012 stands at 44.9 million people.

square kilometre in 2002. However, at the regional level the population density varies between regions; that is, from 12 people per square kilometre for Lindi region to 1,793 people per square kilometre for Dar es Salaam region.

The majority of the population (approximately 80%) depends on subsistence agricultural production (i.e., small-scale farming, livestock keeping and fishing). Major crops produced include maize, paddy, sorghum/millet, cassava, potatoes for food and coffee, tea, cotton, tobacco, cashew nuts, cloves and sisal as cash crops. Tanzania is also rich in natural resources, which include minerals, forests, woodlands, wildlife, rivers, lakes and wetlands.

1.3. Tanzania Disaster Profile

Tanzania is vulnerable to a number of disasters, which can be categorized into natural and man-made disasters. These include drought, floods, pests, epidemics, fire, accidents, cyclones/strong winds, conflicts, landslides, explosions, earthquakes, technological disasters and terrorism. Different parts of the country are vulnerable to different disasters due to the difference in physical, social and economic characteristics together with variation in geographic locations. Apart from variations in physical, social and economic characteristic, the country's vulnerability is compounded by inadequate arrangements for preparing and responding to disasters. Moreover, climate change and its associated impacts is a current

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⁸ PMO, (2003). Country Vulnerability Assessment Report.

phenomenon that is likely to accentuate the impacts of weather related disasters such as drought and floods.

Major hazards experienced in Tanzania for the past decade are drought, epidemics, floods, vermin/pest infestation, fire, major accidents, strong winds, civil conflict and earthquakes⁹. Potential hazards for Tanzania are summarized in

Table 1 below.

Table 1: A summary of Potential Hazards in Tanzania¹⁰.

	I: NATURAL HAZARDS
1.	Flood
2.	Drought
3.	Tropical cyclones
4.	Earthquake
5.	Lightning
6.	Landslides
7.	Tsunami
8.	Strong Winds
9.	Beach erosion
10	Epidemics (Cholera, Rift Valley Fever, Bird Flu, Food
	Poisoning, Swine Flu, etc)
11	HIV/AIDS
12	Animal Disease outbreak(Anthrax, Beak Quarter, Foot and
	Mouth disease, lumpy Skin etc)
13	Pest Infestations
14	Volcanic Eruptions

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⁹ According to the Prime Minister's Report (2003) on Vulnerability Assessment and field survey conducted in sector ministries and regions. Similarly, Risk, Vulnerability and Capacities Assessment for Kondoa, Mpwapwa and Chamwino districts in Dodoma region in 2012 indicate the same major types of hazards.

¹⁰ Following PMO, 2012. Tanzania Emergency Preparedness and Response Plan

	II: MAN-MADE/TECHNOLOGICAL HAZARDS
1.	Fire Outbreak
2.	Road Accidents
3.	Power Failure
4.	Proliferation of Unplanned Settlements
5.	Environmental Degradation and Pollution
6.	Marine Accidents
7.	Collapse of Buildings
8.	Oil Spill
9.	Civil Disorder
10.	Aircraft Accidents
11.	Hazardous Material (including radioactive material)
12.	Industrial Disasters
13.	Terrorism

1.3.1. Drought

Tanzania normally experiences recurring droughts in every four years. According to available data, the country has been hit by drought more than 18 times11 since its independence. The recent one occurred in 2007/2008. It affected Arusha, Dodoma, Iringa, Kilimanjaro, Manyara, Shinyanga, Lindi, Singida, Tabora and Mwanza regions. About 46,661.1 tons of maize and 1,403.67 tons of sorghum were distributed to affected population. Another serious drought occurred in 2008/2009 affecting mainly the northern regions of the country particularly Arusha, where seed cows stocks had to be distributed in Ngorongoro, Longido and Monduli Districts. Areas most frequently affected by drought are the central regions of Dodoma, Singida, Tabora and Shinyanga that normally receive low rainfall between 200-

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¹¹ Tanzania disaster profile data from the Disaster Management Department, Prime Minister's Office

600mm annually. Others include Arusha, Manyara, Mara, Mwanza, Kigoma and Mbeya regions¹².

1.3.2. Floods

Floods in Tanzania are exacerbated due poor land use planning and squatter development in urban centres which often block natural and constructed water ways. Low lying areas near rivers and lakes especially in Mbeya and Morogoro regions have been particularly prone to floods. Other flood prone areas are Dar es Salaam, Tanga, Mbeya, Pwani, Rukwa and Mtwara. The immediate problems created by floods are shelter, food shortages and water contamination in the affected areas necessitating emergency support for medical and food supplies and seed for the next crop season.

For example, floods in Dar es Salaam on 19th and 20th December 2011 claimed about 41 lives, and the government spent more than 1.8billion TSh in response and recovery activities. Likewise, floods affected Kilosa district in Morogoro region on December 2009/January 2010 whereby 2 people died and 6,203 households with 26,103 people were affected. The total cost for this disaster amounted to Tsh 9.8billion¹³. In rural areas people prefer to live in flood prone areas because of poor land use management and farming systems, thereby increasing their vulnerability to floods.

1.3.3. Epidemics

Epidemics have regularly hit the country. Epidemics include human and animal diseases. Major human diseases are malaria, dysentery, cholera and

¹² Disaster Risk Reduction Capacity Needs report, 2008

¹³ PMO, 2012. Tanzania disaster profile.

meningitis Malaria is still a major health concern in Tanzania especially for pregnant women and children younger than five years of age. HIV/AIDS, on the other hand, is a serious pandemic affecting about 1.4million people in the country. According to the 2011-2012 Tanzania HIV/AIDS and Malaria Indicator Survey (THMIS), prevalence rate for this pandemic is at 5.1 per cent, of which men accounts for 3.8 per cent and women 6.2 percent of the average prevalence rate. Likewise, Cholera outbreak in Kigoma (1987) killed about 90 people. Furthermore a widespread cholera outbreak in 1977 killed 500 people and affected 6000 others.

Major livestock diseases are foot and mouth diseases, trypanasomiasis, rabies, ndigana, anthrax, African swine fever and Rift Valley Fever (RVF).

1.3.4. Pest infestations

Pest infestations in this context include insects, diseases, wildlife and vermin that destroy plants. Common pests in Tanzania include locusts, armyworms, quelea quelea, cassava mealy bugs and wildlife. The most affected Regions are Arusha, Singida, Dodoma, Mtwara, Kagera, Shinyanga and all regions adjacent to conservation areas. The major implications of pest outbreaks include reduced level of crop production, which lead to low economic gain (and sometimes famine) among households in the affected areas. For example, in 2005/2006, armyworm infestation affected about 321,000 people in Lindi region with total damages estimated at TSh3.4 billion.

1.3.5. Fire

Urban and Bush fires are common in Tanzania. In urban areas fire is mainly due to electrical faults and flammable industrial products, while in rural areas rural fires are due to burning of natural vegetation or remnants of crop residues in farms. Fire accidents occur in all zones at different levels of magnitude. However, it has been reported at relatively higher levels in Rukwa-Ruaha rift valley zone, Inland sedimentary plateau, Ufipa plateau and western highlands, Central plateau and Coastal zone.

In recent years major fire incidents have occurred in urban areas including Dar es Salaam, Mwanza, Arusha, Mbeya and Songea. Fire accidents have caused death, loss of property and injuries to human beings and destruction to the environment.

1.3.6. Major accidents

Accidents occur due to transportation, industrial and other socio-economic activities. Recently, Marine accidents have claimed 347 lives, while 619 persons have not been located. On 10th September 2011, MV Spice Islander capsized in Nungwi-Zanzibar, killing about 203, while MV Skagit capsized on 18th July 2012 killing 144 people. Other major marine accident occurred on 21st May 1997 in Lake Victoria, where MV Bukoba capsized killing 833 people.

Majority of accidents in Tanzania relate to road transportation. Studies¹⁴ indicate that although the road traffic accidents problem is spread

 $^{^{14}}$ Komba, 2006. Risk Factors and Road Traffic Accidents in Tanzania: A Case Study of Kibaha District.

countrywide, three geographical zones can be singled out as the most accidents prone. These zones are the large urban centres in the country like Dar es Salaam, the regions traversed by the Tanzania Zambia motor Highway across Kibaha District (TANZAM) and the regions traversed by the road from Chalinze- Segera –Arusha to Namanga border. These three spatial zones account for over 70% of all road traffic accidents in the country. The most transportation accident-prone regions are Dar es Salaam, Morogoro, Pwani, Mbeya, Arusha, Kilimajaro and Tanga.

The Traffic Police reports in the country indicate that road accidents have been on the increase. For example, in 2002 the total road accidents were 15,490 claiming 1994 lives. This number went up to 23,578 in 2012 claiming 3696 lives. This means in a period of 10 years the road accidents have increased for more than a half (52.2%, Figure 4). Similarly, the number of people injured as a result of road accidents has been on the increase (Figure 5). According to the report of the Council the most vulnerable groups are passengers and pedestrians It is estimated that accidents cost the country about TSh 190 billion annually. Train accidents, on the other hand, have also killed and injured people. In 24th June, 2002 for example, a train accident at Msagali village, Dodoma region killed 283 people and injured 466 others.

On the other hand, accidents involving bombs stored in the army barracks have also occurred recently. This is a relatively new form of accident in the country. For instance, on 29th April 2009 a bomb blast occurred in Mbagala,

Dar es Salaam claiming about 26 lives and affecting 9704 people. The total cost for response and recovery for this operation amounted to TSh10.8billion in terms of relief, compensation and rehabilitation. The same incident happened on 16th February 2011 at Gongo la Mboto, Dar salaam whereby 30 people were killed and 1693 households were affected. The total cost for this operation amounted to more than TSh5.8 billion. Other non-road accidents include a mining accident that occurred in Mererani area in Manyara region, whereby 100 miners¹⁵ died after the mining area was flooded with rainwater, a collapse of a 16 storey building in Dar es Salaam in 2013 which claimed 34 lives and involved a major rescue operation.

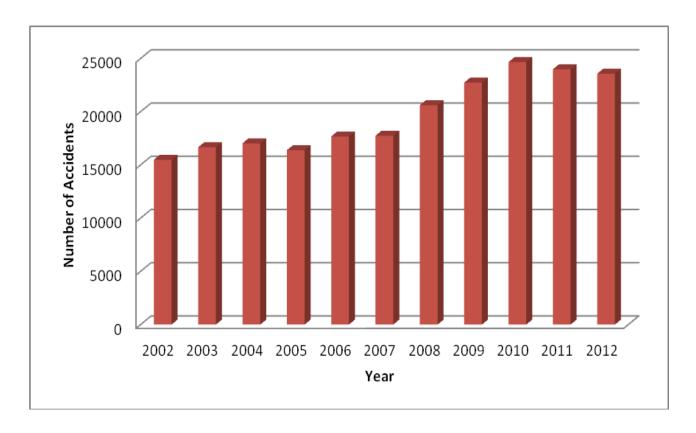


Figure 4: Road Accidents in Tanzania, 2002-2012. Source: Traffic Police, 2013

¹⁵PMO, 2008. DRR Capacity Needs Assessment report.

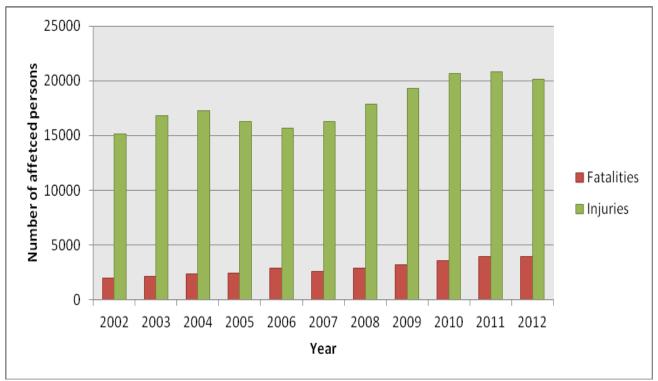


Figure 5: Number of fatalities and injuries from Road accidents 2002-2012. Source: Traffic Police, 2013.

1.3.7. Earthquakes

Tanzania is traversed by two rift valleys and such it is vulnerable to earthquakes. Earthquakes and volcanoes are reported to occur mostly in two zones; the Rukwa-Ruaha rift zone and Northern rift valley including volcanic lands which are all located in tectonically active areas. The most recent earthquakes and volcanic activities occurred in Rukwa, Mbeya and Arusha regions. Homes and properties were destroyed and a number of people were shifted away from an active volcano mountain.

1.3.8. Conflicts

Conflicts occur due to primarily land related issues. They are reported to be occurring mostly in southern highlands, coastal and central plateau zones.

Major types of conflicts that have been witnessed in Tanzania over the past decade are those related to properties/land boundaries, conflicts between farmers and pastoralists and conflicts between refugees and local communities. Conflicts on properties/land boundaries are common in Arusha, Manyara, Mara, Kilimanjaro and Kagera regions while those between farmers and pastoralists occur mainly in Arusha, Mbeya and Morogoro regions.

1.3.9. Cyclones/Strong winds

Cyclones or strong winds are often experienced in parts of Arusha, Tanga, Manyara, and parts of Dodoma, Lindi, Mtwara and Ruvuma regions. For example, a cyclone associated with heavy rains occurred in Bahi, Dodoma, damaging about 13 houses at a cost of TSh10Million and affecting livestock. In recent years cyclones have also affected Dar-es Salaam, Mwanza and Mbeya regions. In Mtwara, Mbeya and regions along Lake Victoria cyclones it have been noted that strong winds especially during heavy rain seasons are accompanied by thunderstorms. Storms cause negative impacts including death, destruction of property and the environment. An overview of the occurrence of five main hazards based on agro ecological zones in shown in Figure 6.

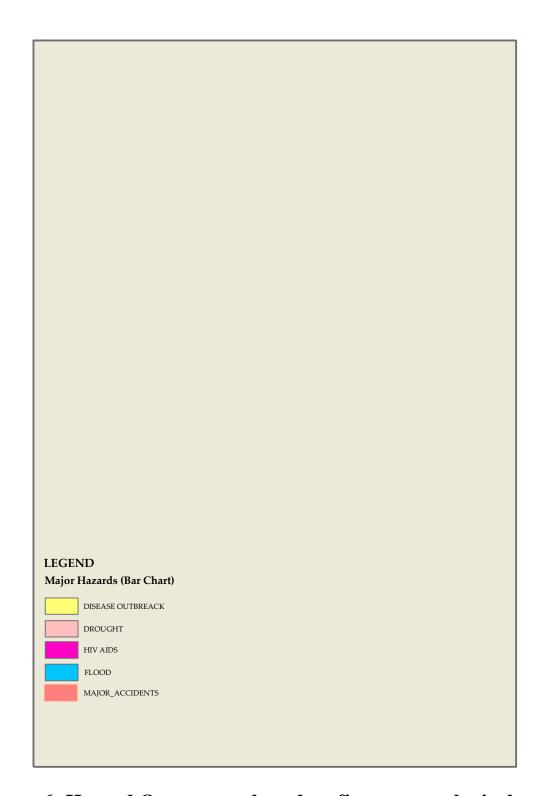


Figure 6: Hazard Occurrence based on five agro-ecological zones, Tanzania

Source: PMO, 2008. DRR capacity needs assessment report

CHAPTER TWO

2. GOALS AND OBJECTIVES

2.1. Goal

To reduce disaster impacts due to natural and man-made hazards (including climate change) for a safer, resilient and more sustainable Tanzanian Society through effective and efficient coordination mechanisms to prepare for, prevent, mitigate, respond and manage emergencies and disasters.

2.2. Objectives

It will be the primary responsibilities of government ministries, departments and agencies, Civil Society Organizations (CSOs), international agencies and any other organization involved in disaster management to cooperate in order to achieve the following common objectives:

- i. To ensure that disaster and emergency preparedness and response measures such as Emergency preparedness and response plans (EPRPs) and Standard Operating Procedures (SOPs) are in place and functioning efficiently and effectively at all levels;
- ii. To integrate Disaster Management activities, including Disaster Risk Reduction (DRR) into the development process at all levels;
- iii. To secure and coordinate efficient utilization of resources in disaster management;
 - i. Establish and maintain an effective institutional coordination mechanism for coordination, collaboration, cooperation and

participation in Disaster Management activities among key stakeholders;

ii. To integrate research and innovation in DisasterManagement activities

2.3. Guiding Principles

Effective and efficient disaster management requires adherence to the following key guiding principles.:

- (i) Effective planning, coordination, collaboration, cooperation and communication: Competent planning, co-ordination, collaboration and communication, at all levels, amongst stakeholders, are critical components of disaster management. Alternative and effective communication systems¹⁶, especially, where normal communication is likely to be or has been interrupted during disasters should be established in all government agencies and collaborating organizations.
- (ii) Minimum standards in disaster response: These guidelines, in line with the Sphere Standards, recognize that all those affected by disaster and emergency situations have the right to life and human dignity and therefore require assistance, and also the need to take all appropriate measures to alleviate human suffering arising from disaster impacts and emergency situation. Therefore, all stakeholders in disaster management

 $^{^{16}}$ The Tanzania Emergency Disaster Communication Strategy is already in place.

shall adhere to internationally agreed set of minimum standards¹⁷ in order to improve the quality of humanitarian actions.

- Community Participation in Disaster prevention and (iii) Management: Communities at local levels are the most affected by disasters and yet are the first responders through their traditional coping mechanisms. In view of this, strategies for based disaster management on community consultation, experience and participation should be established. Communities should be encouraged to establish mechanisms, building on their traditional coping strategies to enable them to share knowledge and technologies and to pool together local resources for disaster preparedness, mitigation, prevention, response and recovery. This will strengthen Decentralization of Disaster Management and enhance the Bottom Up Approach.
- Management: More frequent disasters occurring in Tanzania such as floods and drought are related to extreme climate change events that are key causal factors that lead to disasters. Therefore, mainstreaming climate change/weather information (such as Early Warning) in disaster management is a vital component of these guidelines.

¹⁷ Examples of minimum standards widely in use include the Sphere Standards. *The Sphere project Humanitarian Charter and Minimum Standards in Humanitarian Response* is one of the most widely known and internationally recognized sets of common principles and universal minimum standards in humanitarian response. These principles ensure that the rights of people affected by disaster are respected, as well as quality and accountability during humanitarian response. http://www.sphereproject.org/.

- (v) **Multidisciplinary and multisectoral approach:** Disasters cut across disciplines and sectors; and, so, the government shall promote adoption of a multidisciplinary and multisectoral approach in disaster management. Such approaches include the National Platforms for DRR¹⁸ that serve as a "multi stakeholder platform" for DRR.
- (vi) Regional and International cooperation: Some hazards such as drought, epidemics, conflicts and proliferation of small arms are not confined within national borders. The Government will promote linkages with regional and international institutions, in order to facilitate collaboration, e.g., in Early Warning Systems; and in fostering joint initiatives for Disaster Risk reduction and response.
- (vii) Capacity Building for Disaster Management: In view of the dynamic nature of disasters, the government and other stakeholders will continue to strengthen capacities through provision of necessary equipments, training and skills development at all levels.

2.4. Purpose

i. These guidelines aims to provide a framework through which government agencies, NGOs, international agencies and other

According to the United Nations International Strategy for Disaster Reduction (UNISDR), Multi Stakeholder Platforms refers to a "mechanism that serves as an advocate for DRR towards coordination, analysis and advice on areas of priority needing concerted action." See Djalante, R., (2012). Adaptive Governance and Disaster Resilience: Multi Stakeholder Platforms in Disaster Risk Reduction. *Natural Hazards and Earth System Sciences*, 12 (9): 2923 – 2942.

relevant stakeholders will effectively and efficiently operate to prepare, prevent, mitigate, respond and manage emergencies and disasters within Tanzania.

- ii. These guidelines provide a framework through which more detailed sectoral operational plans will be prepared and implemented by various government agencies, NGOs, CSOs, international agencies and other stakeholders.
- iii. These guidelines supplement the National Disaster Management Policy, National Disaster Management Act, Tanzania Emergency Preparedness and Response Plan, and its associated Communication Strategy.

2.5. Code of Conduct

These guidelines adhere to a "code of conduct" to guide stakeholders' behaviour throughout disaster management cycle to ensure high operational standards of effectiveness and efficiency in line with other international standards¹⁹. The following code of conduct will apply for all stakeholders:

- i. **Disaster response interventions based on facts and verifiable information:** Data from the early warning systems and the continuous monitoring of disaster occurrence and trends will be the basis of disaster response.
- ii. The humanitarian imperative comes first: the right to receive relief assistance during disasters is a fundamental humanitarian principle

¹⁹ Following the Disaster Management Policy (Draft, 2012), that calls for institutionalization of a code of conduct to ensure effective aid distribution among others. C.f. The Red Cross Code of Conduct in disaster and emergency situations.

which should be enjoyed by all citizens of Tanzania regardless of race, colour, gender or ethnicity. The need for an unimpeded access to affected populations is of fundamental importance in exercising responsibility.

- iii. Aid is given regardless of ethnicity, political or religious affiliation or geographical considerations: at all times, stakeholders will seek to base the provision of disaster assistance on a thorough assessment of the needs of the affected populations or their available local capacities to meet those needs alone, and not otherwise
- iv. **Respect culture and customs**: Stakeholders shall endeavour to respect the culture and customs as well as structures of the communities and households affected by the disaster.
- v. Disaster assistance must strive to reduce future vulnerabilities to disaster as well as meeting basic need: all disaster assistance will affect the prospects for long term development, either in positive or negative fashion. Recognising this, all stakeholders will strive to implement disaster assistance programmes which actively reduce the beneficiaries' vulnerability to future disasters and help create sustainable lifestyles.
- vi. Stakeholders will reinforce the capacity of local communities to manage the full Disaster Cycle: even in disaster situations, communities still possess capacities as well as vulnerabilities. Where possible, stakeholders will strengthen these capacities by employing

local staff and procuring local resources. All activities in Disaster Management should reinforce rather than undermine existing capacities.

vii. **Involvement of beneficiaries in Disaster Management Programmes**: The Government and stakeholders will fully involve communities in the

design, management, implementation, monitoring and evaluation of

Disaster programmes.

- viii. Recognising the dignity of disaster victims: In information, communication and publicity activities, stakeholders will recognise disaster victims as dignified human beings, not hopeless objects.
 - ix. **Transparency, credibility and accountability:** At all times, stakeholders will be transparent, credible and accountable to both those they seek to assist and those from whom they accept resources.

2.6. Scope of the guidelines

The Guidelines apply to all stakeholders that have a responsibility or mandate to manage disasters. The guidelines cover the broad subjects of mitigation, preparedness, response and recovery. As such they cover a broad range of activities in disaster response including, but not limited to:

- i. Provision of information and warning;
- ii. Evacuation of persons from a disaster site;
- iii. Provision and management of shelter to the displaced;
- iv. Provision of basic utensils and management of energy needs of the displaced;

- v. Search and Rescue of persons from a disaster site;
- vi. Medical services including first-aid;
- vii. Fire fighting;
- viii. Detection and marking of danger areas;
 - ix. Decontamination of hazardous areas and similar protective measures;
 - x. Provision of emergency accommodation and supplies;
 - xi. Emergency assistance in the restoration and maintenance of order in distressed areas;
- xii. Emergency repair of indispensable public utilities;
- xiii. Emergency disposal of the dead;
- xiv. Assistance in the preservation of objects essential for survival;
- xv. Establishment of evacuation centres;
- xvi. Emergency food provision:
- xvii. Tracing and family links.

2.7. Key Assumptions

The following assumptions are made in these guidelines:

- (i) Tanzania disaster profile will remain as outlined (In chapter 1:3). However, these guidelines recognize that other hazards may develop in the future especially those related to climate change.
- (ii) Government ministries, departments and organizations will be aware of these guidelines as well as their assigned responsibilities to execute the plan as the need arise.

- (iii) The government, through responsible ministries, departments and agencies, will share and disseminate these guidelines at all levels.
- (iv) Resources and assistance will be available when needed. The guidelines recognize the limited capacity of the Tanzania government to prepare and respond effectively to disasters and emergency situations. Effective collaboration between the government, NGOs, local and international agencies, volunteer organizations and the private sector will be important in securing necessary resources and assistance.
- (v) These guidelines will be reviewed and updated in recognition of changes on organizational capacity, changes in law, government agencies or emergency of new disaster situations.

CHAPTER THREE

3. LEGAL AND INSTITUTIONAL FRAMEWORK FOR DISASTER MANAGEMENT

This section of the guidelines outlines the institutional and legal frameworks from which they derive their existence. It further describes the structures, responsibilities and functions of various key players in disaster management.

3.1. International Legal instruments

The government of Tanzania shall strive to adhere to ratified international treaties and conventions which are relevant for disaster management. These include the Geneva Conventions, the United Nations Universal Declaration on Human Rights, the African Charter on Human and People's Rights and its Optional Protocol on the Rights of Women in Africa, the African Charter on the Rights and Welfare of the Child, the United Nations Framework Convention for Climate Change and the Kyoto Protocol, and the UN Convention for Combating Desertification and the Basel Convention on control of trans-boundary hazardous wastes and their disposal.

3.2. National Legal Instruments

There are a variety of laws that empower different agencies of government to take discrete action on disasters.

These include:

- 1. Inland water transport (Amendment) Act 1965
- 2. Road traffic Act, of 1973, revised 2002

- 3. Roads Act, 2007
- 4. Civil aviation Act, of 2003
- 5. The Surface and Marine Transport Act, 2001
- 6. Aerodromes (licensing and control) Act of 1974
- 7. Aerodrome licensing regulations, 2007
- 8. The Tanzania Airport Authority Act 1999
- 9. Tanzania Ports Authority Act, 2004
- 10. Tanzania Railways Act, 2002
- 11. Tanzania Communications Act, 1993
- 12. Tanzania Communications Regulatory Authority Act, 2003
- 13. Territorial Sea and Exclusive Economic Zone Act, of 1989
- 14. Allocation of Business to Departments and Assignments of Responsibilities to Minister's Government Notice Number 720 of 1995
- 15. Public Health Act, 2009
- 16. The HIV and AIDS (Prevention and Control) Act, 2008
- 17. Mining Act, 1998
- 18. Food, Drugs and Cosmetics Act, 2003
- 19. Wildlife conservation Act, 2009
- 20. The National Parks Act, 1959
- 21. Fire and Rescue Force Act, 2007
- 22. Fisheries Act, 2003
- 23. Forest Act, 2003
- 24. Environmental Management Act, 2004
- 25. Water Supply and Sanitation Act, 2009

- 26. Water Resources Management Act 2009
- 27. The Atomic Energy Act, 2003
- 28. Atomic Energy (Protection from Ionizing Radiation)
 Regulations, 2004
- 29. Energy and Water Utilities Regulatory Authority Act, 2001
- 30. The Engineers Registration Act, 1997
- 31. Animal Disease Act, 2003
- 32. Food Security Act 1991
- 33. Plant Protection Act, 1997
- 34. Pesticide Control Regulations, 1984
- 35. Veterinary Act, 2003
- 36. Employment and Labour Relations Act, 2004
- 37. Worker's Compensation Act, 2008
- 38. The Occupational Health and Safety Act, 2003
- 39. The Land (Amendment) Act, 2004
- 40. Village Land Act, 2009
- 41. Town Planning Act, 2007
- 42. Land use planning Act, 2007
- 43. The Local Government Laws (Miscellaneous Amendments) Act, 2006
- 44. Marine Parks and Reserves Act, 1997
- 45. Electronics and Postal Communications Acct, 2010
- 46. Tanzania Meteorological Executive Agency Act, 1997
- 47. Prevention of Terrorism Act, 2002
- 48. Penal Code-Criminal procedural Act 1985

- 49. Arms and Ammunition act, 1991
- 50. Law of the child act, 2009.

3.3. Institutional Framework

Disaster management requires an integrated multi-sectoral approach, which provides for a comprehensive and active participation and interaction of all key players. As a result, structures need to be established at each administrative level and across sectors. Emphasis is on using existing institutions and organizations, and all existing skills and expertise wherever possible. The focus is on coordination and facilitation, bringing together the required elements and creating an appropriate operational environment. Central to the effectiveness of this is the importance of the sectors, regions and districts. They have a pivotal role in providing a link between the national level competence and the local level needs. It is at these levels that the main emphasis for operational guidelines should be. These guidelines therefore:

- Recognise the commitment of stakeholders and the need for collaboration across all levels of government, community, the private sector, government agencies, private and volunteer organisations, and local communities in all aspects of disaster management; and
- ii. Acknowledge the relationship between T anzania and other regional bodies and countries in major disaster events;
- iii. Emphasise building and maintaining sincere relationships, trust, teamwork, consultative decision-making and shared responsibilities among stakeholders.

In order to achieve effective coordination, structures must be in place across all sectors and levels. It is emphasized that existing structures, institutions and personnel be used wherever possible.

3.3.1. Disaster Management Agency

The Disaster Management Agency (DMA) is, in accordance with the Disaster Management Act²⁰, the "national focal point for disaster prevention, mitigation, preparedness, response and recovery for all types of disasters". The DMA is charged with several responsibilities to ensure effective coordination of disaster management activities in the country. The functions²¹ of the DMA are set out as follows:

In non-emergencies

- i. Prepare national emergency and disaster plans and other similar plans at other administrative levels;
- ii. Monitor, evaluate and update national disaster plans and procedures;
- iii. Collect, analyse and disseminate information relating to disaster prevention, preparedness, mitigation, response and recovery;
- iv. Conduct mapping of hazards, vulnerability analysis and risk assessment in the country;
 - v. Arrange for and carry out the dissemination, of information concerning disaster prevention, preparedness, mitigation, response and recovery;

²⁰ Currently a Draft Disaster Management Act(2011)

²¹ Section 21(2) of the draft Disaster Management Act

- vi. assist local government authorities in establishing civil protection systems;
- vii. Ensure the establishment of regional, district, ward and village disaster management committees;
- viii. Mobilize financial and material resources for the purpose of disaster management;
 - ix. Perform any other functions which are incidental to the above functions;

During Emergencies

During Emergencies, the DMA shall perform the following functions, according to the Disaster Management Act Section 31(2) the Disaster Management Policy²² and the Tanzania Emergency Preparedness and Response Plan (TERPP) and the Tanzania Disaster Communication Strategy (TDCS). These functions are paraphrased for the purpose of these guidelines as follows:

- i. Upon the government's declaration of a disaster situation, facilitate the implementation of the TEPRP to meet the emergency requirements until the crisis ends;
- ii. To coordinate the supply and distribution of relief food assistance through the relevant technical sub-committee;
- iii. To coordinate and collaborate with relevant government and non governmental agencies the evacuation of people, in their own interest or that of the public;

²² The Disaster Management Policy (Draft) tasks the DMA with the overall coordination of disaster plans, operations and plans in the country.

- In collaboration with relevant authorities, maintain the means of iv. transportation by land, air or water and the control of transport of persons and their property;
- To facilitate the temporary acquisition or control of any V. property, undertaking or land;
- To facilitate search and rescue operations including entering of vi. any premises.
- To ensure operability, interoperability and continuity of vii. communications to allow emergency responders to communicate as needed, on demand, and as authorized at all levels of government.

Technical Committees 3.3.2.

The Director for DMA may form a Technical Committee (TC)²³ that will provide technical expertise in specific matters related to disaster management according to pre determined procedures.

The composition of the TC shall be flexible to reflect different experiences, knowledge and skills in dealing with different disaster situations. The membership shall comprise, but not limited to:

- a) Members from specific government ministries, departments and agencies,
- b) UN and other international agencies
- c) Non-governmental organizations,
- d) The Private Sector

²³ Provided for in the draft Disaster Management Act (Section 26) and the Disaster Management Policy

e) Community Based Organizations

In addition to giving technical advice in relation to the implementation of particular elements of the programme, they may be called upon to execute certain duties as may be delegated by the DMA. Also, they will assist in the development of disaster management plans, provide inputs in training, awareness raising, and assist in the review of programmes.

The functions of the technical committees will be to -

- a) Keep under review sectoral early warning reports;
- b) Propose for the DMA approval and, when approved, monitor the implementation of sectoral prevention, mitigation, preparedness, response and recovery measures;
- c) Recommend sectoral budgetary, information and training requirements to the DMA
- d) Give regular technical advice and sectoral progress reports to the DMA, during a disaster including the emergency and recovery phase.

3.3.3. Linkages with Sectoral Ministries

While the DMA will be charged with monitoring, planning and coordination of disaster management, implementation will be the responsibility of the

relevant sectoral ministries. Thus, the development of strong links between these Ministries and the DMA is critical in order to achieve effective coordination.

Focal point officers will be nominated in sectoral ministries. The officers will be responsible for disaster management activities. The key ministries will participate in the National Disaster Management Committee (NADMAC)²⁴ and in the National Disaster management Forum²⁵ in the fulfilment of the multi-sectoral and participatory approach to disaster management. The NADMAC will be responsible to generally oversee and coordinate the activities of the DMA for effective mitigation, preparedness, response and recovery in disaster management.

3.3.4. Linkage with Regional and District Disaster Management Committees

The development of strong links between communities and DMA is crucial for effective implementation of these guidelines. In this context, the DMA's functional linkages with the regions and districts will be established through the creation of Regional Disaster Management Authorities (REDMAC), District Disaster Management Committees (DIDMAC) and Ward and Village/street ("mtaa") Disaster Management Committees (WADMAC, VIDMAC) as provided for in the National Disaster Management Act and Policy. The main links between the DMA and the regions and districts will

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To be established. The current draft Disaster Management Policy provides for the establishment of a National Disaster Management Committee. However, the draft Disaster Management Act provides for the establishment of National Disaster Management Council and the Regional, district and ward or village level disaster management committees.

²⁵ To be established

be through assistance with policy and legislative issues. DMA's assistance to the regions and districts in disaster management planning and capacity building will be primarily through the respective Disaster Management committees at the regional, district, ward and village levels.

The REDMAC and DIDMAC will assume the following responsibilities at the regional and district levels respectively:²⁶

- a) to facilitate the implementation of disaster management programmes prepared by the DMA to ensure the highest level of preparedness at the regional and district levels;
- b) to ensure that disaster management, including DRR concerns are integrated in the regional and district level development planning;
- c) in the event of a disaster, to mobilise resources for disaster response and respond to disasters occurring in their respective jurisdiction according to prepared plans and procedures;
- d) to assume initial role in the event of a disaster and coordinate all the agencies and individuals in accordance with the plans that have been prepared, understood and rehearsed;
- e) to continuously monitor in collaboration with DMA the disaster threats and the conditions of the vulnerable population within the region;
- f) to conduct studies in collaboration with DMA on the conditions of the vulnerable population and prepare recommendations on reducing their vulnerability;

 $^{^{\}rm 26}$ Adopted from the Draft Disaster Management Act, Modified

- g) to prepare plans for the prevention and mitigation of any disaster in the region, which includes training and simulation exercises;
- h) to collect, analyse and disseminate disaster management information, including early warning information;
- i) to ensure that local people, NGOs, the Private sector, Community Based Organisations (CBOs), Faith-Based Organisation (FBOs), UN and other international organizations fully participate in disaster management planning, decision making and implementation of disaster management activities;
- j) to coordinate district plans on the prevention of disasters and their mitigation submitted by the District Committee;
- k) to oversee the preparation of regional and district level plans and procedures

3.3.5. Linkages with Regional and International Policies, Strategies and Plans

3.3.5.1. The Hyogo Framework for Action 2005-2015

The Hyogo Framework for Action, 2005-2015 (HFA) in which Tanzania is a signatory, is the key instrument for implementing Disaster Risk Reduction (DRR), and has been adopted by 168 Member States of the United Nations. Its overarching goal is to build resilience of nations and communities to disasters, by achieving substantive reduction of disaster losses by 2015 – in lives, and in the social, economic, and environmental assets of communities and countries. *Priority 5 of the HFA calls for strengthening of disaster*

preparedness for effective response at all levels. These guidelines have been prepared to address this priority of the HFA.

3.3.5.2. The Africa Regional Strategy for Disaster Risk Reduction

The Africa Regional Strategy for Disaster Risk Reduction (2004) addresses the need for a strategic approach to improving and enhancing the effectiveness and efficiency of disaster risk management in Africa by emphasizing disaster risk reduction within the New Partnership for Africa's Development (NEPAD) framework. The NEPAD's objective is to eradicate poverty and promote sustainable development. The Strategy covers both natural and man-made hazards and provides a framework through which Regional Economic Communities (REC) can develop and implement their disaster risk reduction strategies. The main objective of the Strategy is to contribute to the attainment of sustainable development and poverty eradication by integrating disaster risk reduction into development activities, as envisioned in these guidelines.

3.3.5.3. SADC Disaster Risk Strategic Plan (2006-2010)

The Southern African Development Community (SADC) Disaster Risk Strategic Plan (2006-2010) aims to facilitate disaster risk and vulnerability reduction to the impact of disasters by providing a regional framework for coordinating disaster risk reduction related activities within the SADC Member States. The strategy maximises linkages in DRR through capacity building creation and strengthening at regional, national and community

levels. Through its goals, objectives and various responsibilities assigned to various agencies, these guidelines align to the SADC Strategic plan.

3.3.5.4. The East African Community Disaster Risk Reduction and Management (EAC-DRRM)

The EAC Disaster Risk Reduction and Management (DRRM) Strategy recognizes and focuses on current paradigm shift in disaster management. The emphasis in this new paradigm placed on the need to move from reactive (response actions) disaster risk management, based on emergency and crisis management to a proactive (prevention actions) based on the analysis of vulnerability, risk evaluations, and situational assessments with a view to mitigate disasters impacts before they occur. This paradigm shift calls for effective application of early warning systems, effective communication and knowledge sharing in order to increase the resilience of the communities. The EAC-DRRM therefore requires DRR activities to be part of development planning, programs and projects as a means to foster sustainable development in the partner states and in the region as a whole. These guidelines share the same objective to integrate disaster management activities into development planning.

3.3.6. The Role of UN agencies, International NGOs, CSOs, Private Sectors, FBOs and Volunteers

Non-State Actors-comprising the UN agencies, international NGOS, CSOs, The Private Sector, volunteers Faith Based Organisations (FBOs) and international humanitarian organisations such as the Red Cross Society are important actors in Disaster Management. Given their specialised skills,

knowledge, experience, commitment and reliability and availability of resources, these organisations have great potentials to provide skilled services and resources in the whole disaster management cycle.

For example, the UN agencies, are important non-state actors specializing in provision of technical and financial assistance to both government and non-governmental agencies working in disaster management The Private sector, on the other hand, has a large untapped potential to help provide skilled services in form of technical manpower or in-kind donations of goods or services for preparedness & emergency response phase of disaster management.

International humanitarian organizations such as the International Federation of the Red Cross and Red Crescent Society (IFRCS) are specialized in providing humanitarian assistance in disasters and health emergency before, during and after their onset. The Tanzania Red Cross Society (TRCS), established by the act of parliament no 71 of 1962 fulfil these roles at the country level.

The Role played by FBOs and CSOs compliment government initiatives in disaster management, and plays a key role in addressing poverty alleviation and promoting sustainable development. FBOs and SCOs are often one of the responders in disaster situations, and their broad support and membership from a wide section of the communities contribute to their successful operations.

The government can therefore tap the potential of NSAs through established set of Standard Operating Procedures in order to minimise damage and protect life and property in disaster and emergency situations.

In collaboration with the DMA and other relevant stakeholders, all NSAs will be responsible to:

- (i) Facilitate the implementation of disaster management policies by the public, particularly the local communities,
- (ii) Facilitate public awareness creation and capacity building in disaster mitigation, preparedness, response and recovery at all levels,
- (iii) Facilitate preparedness drills and simulation exercises in preparation for potential disasters,
- (iv) Participate in disaster and emergency response operations in line with established SOPs, including, but not limited to search and rescue, evacuation, emergency shelter provision, provision of security services, handling of mass casualty and rehabilitation,
- (v) Assist in provision of material, human and financial resources for disaster risk reduction initiatives and response operations,
- (vi) Facilitate access to accurate information and basic communication.

CHAPTER FOUR

4. SPECIFIC GUIDELINES FOR CROSSCUTTING ISSUES

Disaster management in Tanzania acknowledges that the magnitude and scale of disaster impacts differ among sectors, various groups of people and location. For example, while an earthquake of high magnitude would have almost a complete damage to infrastructure, resulting to mass casualties and deaths; drought, on the other hand, would have varying impacts even in households located in the same village and individuals within a household. Women, children, the elderly, physically challenged and the sick persons are considered more vulnerable to disaster impacts. On the other hand, climate change and its resulting vulnerability pose a new challenge to the society's coping capacity to disaster impacts.

Against this background, these guidelines provide a framework through which cross cutting issues would be integrated in disaster management activities. This section provides specific guidelines for cross cutting issues namely:

- a) Climate change
- b) Gender and vulnerable groups
- c) Psychosocial issues
- d) Environment
- e) Food Security and Nutrition
- f) Water Supply and Sanitation
- g) Human Rights
- h) Health

- i) Education
- j) Information and Communication Technology (ICT)

4.1. Climate change

The impacts of climate change in Tanzania are increasingly more evident leading to disaster vulnerability. They exacerbate the onset, impacts and magnitude of climate-related hazards like floods, drought, epidemics, ice melting, sea level rise and pest infestations-hazards that have become a common phenomenon in the World.

According to the National Adaptation Plan of Action (NAPA), recent rainfall pattern for the country has become much unpredictable with some areas/zones receiving extremely minimum and maximum rainfall per year (deviating from the mean annual values of 500mm to 2,500mm). Similarly, the mean temperatures will increase throughout the country particularly during the cool months by 3.5°C while annual temperatures will increase between 2.1°C in the North Eastern parts to 4°C in the Central and Western parts of the country²⁷. Overall, the country is predicted to warm by 2-4°C by 2100.²⁸

The impacts of climate change and related extreme events have devastation consequence to people and various production sectors. For example, climate change impacts on agriculture upon which 80% of the population depend, often lead to a situation of food insecurity affecting most the poor and

 $^{^{}m 27}$ NAPA, (2006). See also the National Climate Change Strategy 2012 (Draft).

²⁸ Paavola, J. (2003). Livelihoods, Vulnerability and Adaptation to Climate Change in the Morogoro Region, Tanzania. CSERGE Working Paper EDM 04-12. University of East Anglia, UK.

marginalized peoples, including women and children, with its ultimate repercussion on the nation's economic growth. It is estimated that with an increase in temperature and reduced rainfall as well as change in rainfall patterns (as outlined above), the average yield of maize will decrease by 33% countrywide. Furthermore, yield of the same crop will decreases by up to 84% in the central regions, 22% in North-eastern highlands, 17% in the Lake Victoria region, and 10 - 15% in the Southern highland²⁹.

In view of the above, it is imperative to adopt appropriate interventions and right measures in order to adapt effectively to the challenges posed by climate related disasters. The guidelines recognise the following considerations in addressing climate related disaster impacts:

- i. The need to adapt to present climate variability as a first step towards addressing future climate change;
- ii. The need for a DRR approach in addressing climate change impacts
- iii. The need for a multi-sectoral approach to managing climate change implications for disaster management;
- iv. The need for community based disaster management approach in order to benefit from first-hand experiences from the communities in addressing climate related disaster impacts.

These following interventions and measures will be adopted in line with national, Regional and International strategies; policies and plans³⁰ by the

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²⁹ Ibid.

The Tanzania National Adaptation and Plan of Action, 2006; the National Disaster Management Policy, SADC Disaster Risk Reduction Strategic Plan (2006-2010), the East African Community Disaster Risk Reduction and Management Strategy (2012-2016), the Hyogo Framework of Action (HFA) 2005-2015.

DMA to address the challenges of climate change and ensure its integration in disaster management activities in the country:

- i. Strengthen institutional and technical capacity for climate change adaptation and disaster risk management across all sectors
- ii. In collaboration with relevant agencies (VPO (DOE, NEMC)MAFC, TMA) assess and monitoring climate risks (current and future) and vulnerabilities and enhance early warning systems
- iii. Improve knowledge management, awareness raising and education on climate change impacts, adaptation and disaster risk management
- iv. Reduce climate related risks and the underlying vulnerabilities by implementing technical options in vulnerable sectors such as agriculture and livestock
- v. Strengthen capacities and procedures for effective disaster preparedness, response and rehabilitation at all levels and integration of climate change adaptation initiatives.

4.2. Gender and Vulnerable Groups

It is now widely acknowledged that disasters do not affect men and women equally and there is a need to focus on vulnerable groups³¹. Available data on Risk and Vulnerability Assessments and poverty trends in Tanzania indicate that women, children, physically challenged and the elderly are most vulnerable to the impacts of disaster³². When disasters strike, it is the

³¹ Asia Pacific forum on Women, Law and Development (2006). Guidelines for Gender Sensitive Disaster Management; The Republic of Uganda, 2010. See also the National Policy for Disaster Preparedness and Management; Inter-Agency Standing Committee (2006). Guidelines for Gender-based Violence Interventions in Humanitarian Settings;

³² See for example; PMO, 2003. National Vulnerability Assessment Report and PMO, 2012. Risk, Vulnerability and Capacities for Chamwino, Mpwapwa and Kondoa Districts.

most vulnerable groups such as women, children, marginalized groups, physically challenged and the sick who bear the brunt of the tragedy. It is therefore necessary to analyze and understand the relevance and implications of gender roles in disaster management in order to:

- i. Save lives by better targeting of beneficiaries;
- ii. Ensure the effective and efficient distribution and use of resources in the planning and implementation of all phases of disaster management;
- iii. Empower women and men to assess risks and undertake actions;
- iv. Enable participation of both men and women in disaster risk management activities, including projects and programmes.

The DMA will have the main responsibility to integrate gender issues in Disaster Management at the national, regional, district and village levels. The following categories, drawn upon the disaster management cycle, will guide the analysis of gender to ensure gender equity and equality in disaster management:

A. Disaster Risk Reduction/Mitigation

- i. Ensure that women and vulnerable groups priorities are considered in the planning and implementation of DRR activities and programmes, e.g. budgetary allocation, participation and capacity development;
- ii. Ensure that both men and women are involved equally in enhancing early warning and monitoring risk, e.g. in assessment of risk, vulnerabilities and capacities, ensure

- women's participation in early warning systems, and equal access to early warning information;
- iii. Ensure that capacity building programmes promote a culture of safety among men and women;
- iv. Reduce underlying risk factors, by ensuring that critical safety facilities and infrastructure (e.g. evacuation centres and emergency shelters, water, sanitation, and health systems) are accessible by both men and women;
- v. Strengthen effective preparedness and response by ensuring that disaster preparedness and response plans take into account differentiated capacities and vulnerabilities among men and women,
- vi. Promote the importance of women as important key change agents and prioritize actions that reduce risks and vulnerabilities for women in preparedness and response plans.

B. Emergency Response

- i. Mobilise and encourage maximum inputs from women's organizations and their members in emergency operations
- ii. Ensure evacuation arrangements have been made to cater for the special needs of children, women, the elderly, physically challenged and the sick,
- iii. Ensure that evacuation routes are cleared and easily accessible to vulnerable groups;

- iv. Identify security risks and threats facing vulnerable groups and device appropriate policies to prevent and respond to violence, abuse and exploitation against women and children;
- v. ensure that women and vulnerable groups are trained in various communications systems to facilitate quick dissemination of information in disaster situations;

C. Post Disaster/Relief

In the immediate post disaster scenario, emergency relief should be sensitive to the needs and priorities of various groups of men, women and children. Awareness of the capacities of men and women in this period are important, as well as their coping strategies. The following responsibilities should be undertaken to address women and other vulnerable groups concerns in post disaster situations:

- i. Ensure the basic needs of both women and men and other vulnerable groups are met through collaboration, involvement and coordination with emergency management workers;
- ii. Involve women in collection and using information for immediate damage/needs assessment;
- iii. Collect and disaggregate data according to sex, age and socio economic status;
- iv. Identify the needs for both men and women that would enable them to return to their livelihoods or find other alternatives;
- v. Ensure equal accessibility and distribution of water and food to vulnerable groups

- vi. Address feminine hygienic needs as necessary, including their privacy and dignity.
- vii. Ensure that health services accessible to all men, women, children, youth, and the physically challenged.
- viii. Devise measures are in place to ensure that children resume studies as quickly as possible to promote a quicker return to routine and normalcy.
 - ix. Ensure that shelters for vulnerable groups such as unaccompanied children or female-headed households are given special consideration such as location and proximity to facilities and distribution points.

4.3. Psycho-Social Issues

Usually, in disaster situations, psychological effects are common among all people in the affected communities. Strategies must be in place to address the Psychological and Social needs of different groups of people. The following responsibilities should be undertaken at all levels to:

- i. Ensure the availability of psychosocial support initiatives, such as child and women friendly spaces, support groups and other coping strategies for dealing with grief, changed life circumstances, violence, parenting skills and understanding and helping children deal with loss and trauma;
- ii. Identify specific risks for violence in the context of the affected communities;
- iii. Ensure that psychosocial services also address men and provide them with acceptable outlets for increased frustration and

tension, changes in gender roles, and perceptions of masculinity in the aftermath of a disaster.

4.4. The Environment

The Environmental Management Act No. 20 of 2004 (EMA, 2004), enacted following the National Environmental Policy (1997), provides for a legal and institutional framework for sustainable management of the environment, prevention and control pollution, waste management, environmental quality standards, public participation, environmental compliance and enforcement. The Act gives the National Environmental Management Council (NEMC) mandates to undertake enforcement, compliance, review and monitoring of environmental impact assessment, research, facilitate public participation in environmental decision-making, raise environmental awareness and collect and disseminate environmental information. On the other hand, the Division of Environment (DOE) in the Vice President's Office (VPO) has the responsibility to formulate environmental policies, laws, strategies and guidelines on environmental issues among others.

In order to harmonise and integrate disaster management activities with Environmental Management in the country, the DMA, in close collaboration with NEMC and DOE/VPO will undertake the following responsibilities:

- i. Integrate Disaster management activities, including DRR, in National Adaptation Plan of Action for climate change,
- Ensure that DRR activities are integrated into new Environmental and Social and Impact Assessment (ESIA) for new development projects;

- iii. Encourage the integration of disaster management activities including DRR into project monitoring and audit,
- iv. Align Disaster Management Activities with the National Climate Change Strategy;³³
- v. Ensure that risk and vulnerability assessments conducted in the country clearly indicate where and to what extent a particular hazard is likely to pose threat to ecosystems.

4.5. Food Security and Nutrition

Disasters and food insecurity are directly interconnected. They are a leading cause of hunger and affect all dimensions of food security, including economic and physical access to food, the availability and stability of supplies, and nutrition. Floods, cyclones, strong winds, heavy rains and hazards destroy agricultural, livestock and fishing infrastructure, assets, inputs and production capacity. They interrupt communities' normal livelihood activities and reduce food supply and income. On the other hand, drought, pests infestations have a direct economic impact by reducing or eliminating farm production, by adversely affecting prices and trade, and by decreasing farm income. Economic crises such as soaring food prices reduce real income, force the poor to sell their assets, decrease food consumption and reduce their dietary diversity. Therefore, disasters create poverty traps that increase the prevalence of food insecurity and malnutrition³⁴.

 $^{^{\}rm 33}$ The National Climate Change Strategy is currently under preparation.

³⁴ FAO, (2011). Resilient Livelihoods – Disaster Risk Reduction for Food and Nutrition Security Framework Programme; WFP, (2011). WFP policy on Disaster Risk reduction and management: Building Food Security and Resilience. Informal Consultation Paper, Rome.

When disasters strike, their associated losses are accentuated in poor households and communities and result in long-term consequences for food security, health, nutrition, education and other critical sectors. Without serious efforts to address them, the risks of disasters will become an increasingly serious obstacle to achievement of the Millennium Development Goals (MDGs).³⁵

Given the inter-linkages between food security and nutrition with disaster management, it will be the responsibility of the government to ensure food availability and appropriate nutrition to the affected population. The DMA in collaboration with MAFC will work together to ensure that;

A.In Preparedness

- a specified amount of food grains is procured every year from within the country and properly stored in the National Strategic Grain reserves in according to SOPs³⁶;
- ii. a **security stock** of food grains is maintained at a specified level to cater for disaster risks;
- iii. **food security situation** in the country is periodically monitored through Rapid Vulnerability Assessments (RVAs) and other methods as appropriate;
- iv. **the price** of food grains is stabilised to ensure regular food supply;

B. In response:

35 United Nations, 2011. 2011 Global Assessment Report on Disaster Risk Reduction. New York.

³⁶ This will reduce the risk of food crisis during disasters. Moreover, food storage would help to keep food supplies stable and act as a safety net for the poor communities

Food provision

- i. Food is distributed to everyone who lost food security as a result of a disaster: to those who lost livelihoods and jobs as a result of a disaster, not only those who lost family members;
- ii. Food distribution mechanisms should respect dignity of disaster affected people without making them fight for food or feeling like beggars;
- iii. Whenever possible, women should be receivers of food to ensure that food is not sold by men to collect money for alcohol.
- iv. Pregnant and breastfeeding women, widows, elderly, orphaned children and disabled should be provided food aid until their food security has been ensured.
- v. Distributed food must be of appropriate quality and fit for human consumption.
- vi. Nutritional needs are met to ensure access to a variety of food,
- vii. Basic food aid include milk and sugar and be provided regularly until families are able to restore food security

Nutritional needs

i. In order to ensure effective, timely and efficient response, and avoiding duplication of information, all stakeholders responding to nutrition emergencies shall adhere to the guidelines established under the Emergency Preparedness and response Plan for Nutrition under the Ministry responsible for Health and Social Welfare.

- ii. To adhere to the International Code of Marketing and Breastmilk substitutes
- iii. In adhering to standards of SPHERE standards of 2011

4.6. Water Supply and Sanitation

As shown in other sections of these guidelines, disasters seriously disrupt the lives of individuals, and the functioning of entire communities or even whole societies. Resulting widespread human, material, economic, and environmental losses stress existing infrastructure and leave individuals in states of shock and despair. Rebuilding damaged infrastructures, such as sewage systems and water supply, not only help to restore a sense of normalcy, but also arrest the spread of disease.

The first goal of emergency response is to prevent outbreaks of waterborne diseases, caused by malfunctioning water supply, polluted water resources, and lack of sanitation facilities. Top priorities for immediate response are provision of sufficient quantities of safe water, arrangement of basic sanitation, and promotion of good hygiene behaviour.

The following guidelines should be followed by government agencies, NGO, the Private sector and all other stakeholders involved in disaster response to ensure safe supply of water and good hygiene behaviour in disasters or emergency situations:

A.Planning considerations

The following planning issues should be considered:

- i. Assess the **demand for water**, i.e. how much water is needed for persons, health centres, livestock, food and toilets depending on local conditions;
- ii. Determine the **location** and security of the water sources-in this case, water sources could be existing ones, local sources or distant sources;³⁷
- iii. Determine the level of treatment required for use/consumption
- iv. Determine how water should be **distributed**-water tankers may be used at the beginning and a piped network later on.
- v. Water collection points should be accessible to all groups of people especially women, children and the physically challenged.
- vi. Water **collection and storage vessels** that are easy to use and clean as contamination of water usually occurs after it has been collected from the supply.

B.Other considerations

In addition to the above, the following general guidelines should be observed:

³⁷ Existing water sources imply those that can possibly be revived in the disaster area. Local sources of water include those existing in an area where the existing supplies are inaccessible. They include wells, ponds, springs, streams, or rainwater. Distant sources refer to the availability of water from distant communities that might not have been affected by the disaster

- i. Ensure that men and women are involved in hygiene promotion activities;
- ii. Properly address feminine hygienic needs;
- iii. Ensure separate and secure latrines and bathing spaces for women and girls in order to avoid harassment and sexual threats;

4.7. Human Rights

In disaster and emergency situations, the protection of human rights is often overlooked-and more attention is devoted to the provision of humanitarian assistance. However, when disasters strike, the affected populations often face a multitude of human rights challenges. This include unequal access to humanitarian assistance, discrimination in aid provision, enforced relocation, sexual and gender-based violence, loss of documentation, recruitment of children into fighting forces, unsafe or involuntary return or resettlement, and issues of property restoration and access to land are just some of the that are often encountered by those affected by the consequences of disasters. Ensuring that their rights are protected will ensure that their dignity is safeguarded against discrimination and abuse. These guidelines therefore aim at ensuring that human rights principles and protection standards, including the fundamental principles of nondiscrimination and accountability, are integrated in disaster management activities.

A: Basic Principles

These specific guidelines on Human Rights in disaster and emergency situations are formulated under the guiding principle that:

- i. Those affected by disasters or an emergency situation are Tanzanian residents and at most citizens. As such, they do not lose their rights as a consequence of the disaster, although they have particular needs that call for special protection and assistance;
- ii. The primary responsibility to provide such protection and assistance lies within the government authority,
- iii. Protection extends beyond securing survival and physical security and property to civil, political, economical and social aspects of the affected population;
- iv. In all cases States have an obligation to respect, protect and fulfil the rights of their citizens and of the people living in their territory;
- v. UN agencies, international and national NGOs, CSOs/FBOs the Private Sector (NSAs) and other relevant national and international actors have an essential role to play in advocating on behalf of the rights of the victims, in addition to their roles specified in these guidelines. The protection responsibilities of NSAs can be:³⁸
 - a. *Responsive:* aimed at stopping, preventing or mitigating a pattern of ongoing abuse;

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³⁸ Following the UN Inter Agency Standing Committee operational guidelines and manual on the protection of persons in situations of natural disasters.

- b. *Remedial:* aimed at restoring people's dignity and ensuring adequate living conditions subsequent to a pattern of violation, through rehabilitation, restitution, compensation and repair; or
- c. *Environment building*: aiming to create and/or consolidate an environment political, social, cultural, institutional, economic and
- d. Legal conducive to full respect for the rights of the individual.

B: Operational Procedures

The operational procedures for protection of human rights, as outlined in the Inter Agency Committee (IASC)³⁹ operational guidelines (and paraphrased here) for protection of humans in disaster situations for in disaster and emergency situations are organized in four main themes, namely:

- i. Protection of life; security and physical, mental and moral integrity;
- ii. Protection of rights related to basic necessities of life and livelihoods;
- iii. Protection of other economic, social and cultural rights;
- iv. Protection of specific groups of persons.

(i) Protection of Life, security and physical, mental and moral integrity

³⁹ Detailed operational procedures and steps can be obtained from IASC, 2006. Operational guidelines on the protection of persons in situations of natural disasters-a right-based approach to disaster relief.

- a) If an imminent disaster/emergency creates a serious risk for the life, physical integrity or health of affected individuals and communities, all appropriate measures necessary to protect those in danger, including in particular vulnerable groups, should be taken to the maximum extent possible (e.g. emergency shelter arrangements);
- b) If such measures would be insufficient, endangered persons should be allowed, and assisted to leave the danger zone or assisted to leave the danger zone;
- c) These evacuations should be carried out in a manner that fully respects the right to life, dignity, liberty and security of all those affected, in particular members of vulnerable groups;
- d) Persons affected by the natural disaster should not, under any circumstances, be forced to return to or resettle in any place where their life, safety, liberty and/or health would be at further risk.
- e) Persons affected by disasters, displaced or not, should be protected against the dangers of potential secondary hazards and other disaster risks.
- f) During and after the emergency phase, law enforcement personnel and local authorities should be encouraged to take effective measures to ensure the security of populations affected by the disaster.

g) Security should be provided in camps, in particular by monitoring, through law enforcement personnel and camp committees drawn from among the affected communities.

(ii) Protection of rights related to basic necessities of life and livelihoods⁴⁰

- a) Measures should be taken to ensure that persons affected by natural disasters have unimpeded and non-discriminatory access to goods and services necessary to address their basic needs.⁴¹
- b)Safe and non-discriminatory access to available humanitarian assistance should be secured for all persons in need. In particular, measures should be taken to grant priority access to such vulnerable groups as minorities, single-headed households, elderly physically challenged, and unaccompanied and separated children.
- c) During and after the emergency phase of the disaster, adequate food, water and sanitation, shelter, clothing, and essential health services should be provided to persons affected by natural disasters who are in need of these goods and services. Provision of goods and services should be without any discrimination of any kind.

(iii) Protection of other economic, social and cultural rights

⁴⁰ In conjunction with the article 2 of universal declaration of human rights.

⁴¹ Read together with the code of conduct to be adhered to by all stakeholders providing humanitarian assistance in these quidelines.

- a) **Education**: The return of children, whether displaced or not, to schooling should be facilitated as quickly as possible after the disaster.
- b) **Possessions and Property:** Competent authorities should be requested to protect, to the maximum extent possible, against looting, destruction, and arbitrary or illegal appropriation, occupation or use of property and possessions left behind by persons or communities displaced by the disaster.
- c) **Housing:** As soon as possible, appropriate measures should be taken, without discrimination of any kind, to allow for the speedy transition from temporary or intermediate shelter to temporary or permanent housing.
- d) **Livelihood and Work**: Projects to restore economic activities, opportunities and livelihoods that are disrupted by the natural disaster should start as soon and as completely as possible.

(iv) Protection of specific groups of persons.

Certain groups of people are particularly vulnerable in the event of a disaster. However, the specific human rights concerns that these groups may face, have been integrated into the guidelines (part i-iii, and also in other parts). In order to succeed in securing the rights of vulnerable groups, and meet their specific needs, it is important to ensure that a detailed census of the affected people is carried out as soon as possible in the relief effort.

4.8. Health

The health sector can be severely impacted with a natural or man-made disaster with medical and/or health threats. For example, floods may exacerbate the risk of water borne diseases such as cholera, while severe drought may result in severe malnutrition due to inadequate diet, particularly for the vulnerable groups. Globalisation and cross border movements may increase the risk of Avian Flu or Sever Acute Respiratory Syndrome (SARS).

According to the Tanzania Health Sector Strategic Plan (2009-2015), it is the responsibility of the Health Emergency and Disaster Preparedness and Response Section (HEPRS) in the Ministry responsible for Health and Social Welfare to prepare and respond to emergencies and disaster at all levels in collaboration with the DMA and other relevant stakeholders.

The following general guidelines will be followed before, during and after emergencies and disasters in matters related to health, by all stakeholders involved in health issues:

- Ensure that internationally acceptable minimum standards for health services are adhered to, such as the SPHERE Minimum Standards for Health Services;
- ii. Ensure that a preventive health strategy is put in place at the earliest time possible of the response operation;
- iii. Set up basic health facilities to respond immediately to any outbreaks of infectious diseases. These facilities should be accessible to all people, regardless of their financial resources;

- iv. Ensure that vaccination campaigns are initiated essential nutritional supplements are distributed;
- v. Ensure that everyone, especially women have full, safe and easy access to life saving reproductive and specialized health services from the early phase of the disaster, followed by more comprehensive reproductive health services in the later/recovery phases⁴²
- vi. Integrate culturally sensitive psycho-social programmes for children, adolescent and single parents in the long term recovery efforts.
- vii. Ensure outreach health services for the elderly, physically challenged people.

4.9. Education

Disaster and emergencies (including civil conflicts and war) often disrupt the education system, leading to inability of school children to continue with their education. In more serious events, this can lead to Internally Displaced People (IDP). Therefore, the return of children, whether displaced or not, to schooling should be facilitated as quickly as possible after the disaster in order to minimize disruption to children's' education, support their psychosocial well being and bring back the sense of normalcy in their lives. The Ministry responsible for Education, in collaboration with the DMA and other stakeholders has the responsibility to ensure that:

The Minimal Initial Service Package for Reproductive Health Services in crisis (MISP) requires that reproductive health (RH) services be coordinated as part of broader health services and should include prevention of HIV transmission, prevention and management of Sexual Violence and prevention of excess maternal and newborn mortality and morbidity in the early phases followed by more comprehensive RH services in the recovery phases.

- i. All children are facilitated to return back to school as early as possible after the disaster or emergency situation;
- ii. Education is free and compulsory at the primary level, in line with the Dakar Framework for Action (2000)⁴³
- iii. Special efforts are made to ensure full and equal participation in education programme for boys and girls affected by disaster
- iv. Schools, to the extent possible, provide a positive, child friendly learning environment as well as sufficient recreational opportunities to restore a sense of normalcy and balance to children's lives in the aftermath of a disaster.

4.10. Information and Communication Technology

Information and Communications Technology (ICT) is an important tool that can be used in the disaster management cycle to facilitate prevention, mitigation, preparedness, response and recovery activities. Timely deployment and use of **Telecommunication resources** can play a crucial role in saving lives, reducing suffering, and facilitate mitigation and relief operations. For example, in the preparedness and mitigation phases, ICT tools can be used to create early warning systems using more than one ICT media in simultaneously (radio, television, telephones-including cell phones, the internet). On the other hand, in the immediate aftermath of a disaster, special computer software packages can be used for activities such as registering missing persons, administrating on-line requests and keeping

⁴³ The Dakar framework for action commits member states to achieving education for every citizen in every society. It was adopted in Dakar, Senegal in 2000. It also refers to the Universal Declaration of Human rights (the right to education) in a broader context.

track of relief organizations or camps of displaced persons. In addition, geographic information systems (GIS) and remote sensing software are being effectively used in all phases of disaster management. The DMA and all actors in Disaster Management shall adhere to the following guidelines with regards to the use of ICT:

I. In Mitigation:

Mitigation involves all pre-disaster activities aimed at reducing the impacts of disasters such as formulation of policies and laws that prevents buildings and settlements in areas prone to floods. The creation and maintenance of critical baseline data, linked to GIS along with modelling and analysis capabilities also form part of mitigation.

ICT requirements to meet the needs of mitigation phase should:

- i. Meet the need to move large volumes of data/information,
- ii. Have a broad connectivity among diverse group of agencies/organisations
- iii. Be timely and accurate to ensure data quality.

II. In preparedness

Preparedness activities range from early warning, community development, training, simulation exercises, resources and supply systems needed for response to early warning and monitoring activities preceding disasters. ICT during this phase should:

i. Ensure the timely distribution of warning information through a dedicated network.

- ii. Timeliness is critical in this phase especially for disasters with rapid onset such as storms and earthquakes.
- iii. In rural areas, the public awareness through available communication types, including traditional ways should be adopted to ensure a timely and wide coverage of the warning information.

III. In response:

Timeliness in response activities is critical as communications among responders and the general public becomes vital. Therefore, it will be the responsibility of all stakeholders to ensure a rapid, reliable, configurable, controlled access communication for efficient disaster response operations. The management of property and casualty status, resource information, and response priorities are vital and require special access capabilities beyond normal commercial telephone/ Internet services.

IV. In recovery:

In the recovery phase, much of the information needed will be mainly related to significant in site data collection for processing claims, reconstruction and documentation of lessons learnt. In this phase, timeliness is relaxed in favour of efficiency.

V. The use of GIS and Remote Sensing applications

Geographical Information Systems (GIS) and Remote Sensing are examples of ICT tools being widely used in almost all the phases of disaster management activities. Timely information on the occurrence, progression

and regression of disasters during the various phases are essential for effective management of disasters

In the planning process GIS can be used to identify and pinpoint risk prone geographical areas, as a GIS-based 3-dimension map provides much more information compared to an ordinary 2-dimension map. GIS can be use to determine evacuation routes or locating vulnerable infrastructure and vital lifelines. It also supports logistical planning to be able to provide relief supplies by displaying previously available information on roads, bridges, airports, railway and port conditions and limitations. Apart from this, activities such as evacuee camp planning can also be done using GIS. Remotely Sensed data from Earth observation satellites can be used to view the same area over long periods of time and as a result, make it possible to monitor environmental change, human impact and natural processes. In the mitigation phase, GIS are helpful in monitoring.

CHAPTER FIVE

5. RESPONSE MANAGEMENT

In order to achieve effective disaster response, it is imperative that the coordinated responses and resources from different agencies at all levels are combined and linked in an orderly manner. The Tanzania Emergency Preparedness and Response Plan (TEPRP), District Emergency Preparedness and Response Plans as well as other agencies and sector's emergency plans provides the details of ACTIONS and Responsibilities that will be taken by the government agencies, volunteer organisations, UN and other international agencies to:

- 1) Prevent disasters and reduce the vulnerability of Tanzania residents to any disasters that may strike.
- 2) Establish capabilities for protecting residents from the impacts of disasters.
- 3) Respond effectively to the actual occurrence of any emergency and disasters within the country.
- 4) Plan for recovery after occurrence of the disaster or an emergency

These actions are elaborated in functional annexes in the respective plans. In view of that, these guidelines provide an overview of response management

structure in disaster and emergency situations, which would supplement emergency procedures outlined in respective plans.

5.1. Principles of Incident Management

Response to every incident requires to be tailored to its particular circumstances. These circumstances will define the appropriate level of management required. Response management designates the responsibilities for various personnel while involved at an emergency incident. Response management can be divided into three levels - *Strategic*, *Tactical and Operational* The terms "Strategic", "Tactical" and "Operational" command are the titles given to the three normal managerial levels associated with emergency incidents⁴⁴. The management of the response to the incident will normally be undertaken at one or more of the three levels-not all tiers, single or multi-agency, will necessarily be convened for all emergencies.

5.1.1. Strategic Level

The strategic level of incident management involves the planning and directing of the organisation's resources in order to meet its overall objectives. The main purpose of this management level is:

- (i) To consider the emergency in its wider context
- (ii) To determine longer-term and wider impacts and risks with review of strategic implications
- (iii) To define and communicate the overarching strategy and objectives for the emergency response

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⁴⁴ Operational, Tactical and Strategic are sometimes referred to as Bronze, Silver and Gold.

- (iv) To establish the framework, policy and parameters for lower-level tiers
- (v) To monitor risks, impacts and progress towards defined objectives.

The strategic level involves the overall command of the incident, and requires the appraisal of the situation and creation of an incident management plan by the Incident Commander (IC). The plan defines the objectives and determines how, where and when available resources will be assigned and directed. It includes the formulation of systems to manage the risks of certain incident types in seeking to achieve these objectives. Such systems are necessary to ensure safe and effective working on the incident ground.

The main objectives of an incident management plan are:

- (i) Saving and protecting those in immediate danger
- (ii) Preventing the escalation of the incident and threats to those in the vicinity
- (iii) Ensuring the safety of operational personnel and the public
- (iv) Protecting property, infrastructure and the environment
- (v) Facilitate the recovery process.

The strategic level of incident management is normally located away from the incident. It may be necessary to convene a multi-agency coordinating group at the strategic level where an emergency or incident has:

- (i) An especially significant impact
- (ii) Substantial resource implications
- (iii)Involves a large number of organisations

(iv)Lasts for an extended duration.

Meetings at the strategic level must comprise representatives of appropriate seniority and authority who are empowered to make executive decisions in respect of their organisation's resources. This underlines the necessity for each organisation to select, train and exercise sufficient senior individuals who are capable of fulfilling this role.

- i. The strategic group will take overall responsibility for the multiagency management of the emergency and to establish the policy and strategic framework within which lower-tier command and coordinating groups will work. It will:
- ii. Determine and promulgate a clear strategic aim and objectives and review them regularly
- iii. Develop an incident management plan
- iv. Establish any parameters within which any tactical groups are to operate in the management of the incident
- v. Prioritise the requirements of the tactical tier and allocate personnel and resources accordingly
- vi. Formulate and implement media-handling and public communication plans, potentially delegating this to one responding agency
- vii. Assess the need to adjust normal business priorities in the light of competing resource demands created by the emergency
- viii. Direct planning and operations beyond the immediate response in order to facilitate the recovery process.

ix. Ensure the safety of personnel and public.

5.1.2. Tactical level

A Tactical level of management is introduced in order to determine priority in allocating resources, to plan and co-ordinate when a task will be undertaken, and to obtain other resources as required. Thus, the purpose of tactical management is to ensure that actions taken at the operational level are coordinated, coherent and integrated in order to maximise effectiveness and efficiency. Tactical Command is undertaken from the Incident Commanding Post (ICP) in the vicinity of the disaster site

While the Incident Commander decides the overall plan, the application of tactics is almost always the responsibility of the Sector Commander. The tactical commander usually has freedom within the overall approach to determine the tactics to be employed; almost invariably they will be based on operational procedures and practices. The Sector Commander will be allocated certain responsibilities and operational goals and it is the Sector Commander who determines how these sectoral goals are to be achieved, and allocates tasks to crews in order to achieve those goals.

When an emergency requires a tactical level of management, a Tactical Coordinating Group (TCG) should be established. The TCG is the forum at which the tactical plan is agreed and implemented, with an agreed common aim and objectives. During a spontaneous incident this group may meet close to the scene at an ICP. This forum is normally chaired by the police. Liaison officers from the local authority should attend and other agencies such as the transport police or utilities may be invited to attend.

Most, but not all, of the Tactical functions will be discharged at or close to the scene of the incident. When more than one agency is operating at the tactical level, there must be consultation between the various agencies Incident Officers. The Tactical Commanders should not become involved with the activities at the scene being discharged by Incident Officers, but concentrate on the overall general management.

If it becomes apparent that resources, or expertise beyond the level of the Tactical Commander is required, or should there be the need to co-ordinate more than one incident/scene (where tactical command has been established), it may be necessary to implement a Strategic level of management.

Working in co-ordination, the responder agencies' tactical commanders will:

- (i) determine priorities for allocating available resources
- (ii) plan and co-ordinate how and when tasks will be undertaken
- (iii) obtain additional resources if required
- (iv) assess significant risks and use this to inform tasking of operational commanders
- (v) Mitigate risks to the health and safety of the public and personnel.
- (vi) Establish chain of command and ensure all personnel are aware of it
- (vii) Direct and coordinate all tactical personnel at the disaster site

- (viii) Provide situational briefing to the other agencies as needed
- (ix) Direct control of the inner and outer parameters and disaster site
- (x) Coordinate all legal matters that arise during the emergency/disaster situation.

5.1.3. Operational level

Operational is the level at which the management of immediate "hands-on" work is undertaken at the site(s) of the incident or other affected areas.

At the smallest incidents all three levels of command decision-making will be the responsibility of one individual. This is likely to be the first arriving officer, who will be concerned with the initial tactics and operational tasks. They will also delegate responsibility for functional tasks where sufficient resources are available.

At larger incidents, the team of officers responsible for various command functions will be organised by the Incident Commander to discharge the operational tasks, while the Incident Commander retains overall command. Crew commanders will be assigned responsibility for command of the various tasks that contribute to the overall tactical plan being implemented.

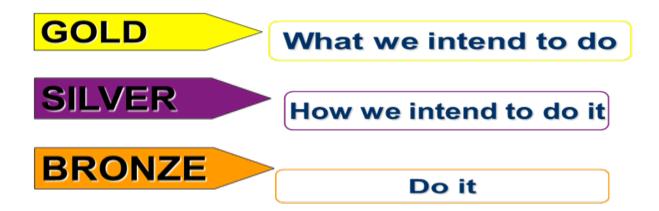
On arrival at the scene of an event, the emergency services will take appropriate immediate measures and assess the extent of the problem, under the command of their respective Incident Officers. They will concentrate on their specific tasks within their areas of responsibility and act on delegated responsibility from their parent organisations until other levels of command

are established. All this takes place at the Operational level and is the normal day-to-day arrangement for responding to any incident.

The command of the resources belonging to any agency and applied within a geographical area, or used for specific purpose, will be retained by that agency. Each agency must liaise fully and continually with others employed within the same area to ensure an efficient and combined effort. Where appropriate, the police will normally act as the co-ordinator of this response at the scene.

These arrangements will usually be adequate for the effective resolution of most incidents. However, for more serious incidents - requiring significantly greater resources - it may be necessary to implement an additional level of management.

To summarise, Strategic (Gold), Tactical (Silver) and Operational (Bronze) are titles of functions adopted by each of the emergency service and respective agencies.



The administrative authorities lies within the three levels of command, which comprises of the Authoritative decisions makers (STRATEGIC LEVEL OF COMMAND) who gets advice from the technical level (TACTICAL LEVEL OF COMMAND) and the level which implements the decision made from the higher levels (OPERATIONAL LEVEL OF COMMAND).

5.2. Resources and Control

After the initial predetermined response of resources, the Incident Commander is responsible for determining further resource requirements and controlling resources on the incident ground. The assessment of resources may include the need for additional equipment, personnel, appliances or consumables.

The degree of control an Incident Commander will need to maintain will depend, in part, on the size and demands of the incident. At larger incidents specific areas of resource control may be delegated to appointed officers, including the operations commander who will look after control of resources deployed at the incident, while a command support officer may be delegated the task of managing the acquisition of additional resources.

5.3. Cordon Control

Cordons may be introduced as an effective method of controlling resources and maintaining safety. Cordons are established around the scene of an incident for the following reasons

i. To guard the scene

- ii. To maintain the safety of the public, personnel, and other emergency responders or staff from utilities attending the incident area/scene
- iii. To prevent unauthorized interference with evidence or property
- iv. To facilitate the operations of all agencies

The following are the main types of cordons that may be used:

(i) **Inner cordons:** Inner cordons are established around the immediate scene of operations to establish more effective control of access to the area. This is a working area and it is important to maintain the appropriate safety and security standards at all times.

Outer cordon: An outer cordon is established, to designate an area from which the public need to be evacuated for their safety or to prevent access by the public to an area used by responding agencies for support activities (Controlling all access and exit points to the outer cordon).

- (ii) **Traffic Cordons:** A traffic cordon is established so that only essential vehicles have access to the scene. All other traffic will be diverted by the police to prevent congestion and allow responding vehicles a safe and timely passage to the scene.
- (iii) **RVP:** Rendezvous point –refers to a point usually situated in the outer cordon, selected by the responding emergency services as the location for all personnel and vehicles to report to before and after attending a major incident.
- (iv) Marshalling Area: I ideally established within the RVP. This area is for resources not immediately required, but may be needed as the

incident progresses. It's used to provide Briefing/Debriefing as recovery for personnel involved at the scene.

5.4. Mass Casualty Management

In most major incidents, such as a major disaster, the need for search, rescue, and first aid is likely to overwhelm the capacity of emergency responders. In such cases, the most immediate help will come from uninjured survivors, and they will have to provide whatever assistance possible, hence the need for community-based training in emergency aid services in the preparation for such incidents.

Transport of the victims to the hospital should be organized at the earliest time possible, but patients should receive adequate field treatment to enable them to tolerate transport delays.

Triage: When the quantity and severity of injuries overwhelms the operative capacity of health facilities, a different approach to medical treatment must be adopted. Triage consists of rapidly classifying the injured on the basis of the severity of their injuries and the likelihood of their survival with prompt medical intervention. The most common classification uses the internationally accepted four colour code system. Red indicates high priority treatment or transfer, yellow signals medium priority, green is used for ambulatory patients, and black for dead or moribund patients. Triage should be carried out at the disaster site in order to determine transportation priority and admission to the hospital or treatment centre where the patient's needs and priority for medical care will be reassessed.

Tagging: All patients must be identified with tags stating their name, age, sex, place of origin, triage category, diagnosis, and initial treatment.

Hospital reception and treatment: At the hospital, triage should be the responsibility of a highly experienced clinician, as it may mean life or death for the patient, and will determine the priorities and activities of the entire staff.

Generally, health services resources should be redirected in order to provide proper treatment to casualties, including bed availability and priority surgical services.

5.5. Communications

Effective, efficient and reliable communications on the incident ground are absolutely essential for the overall management and deployment of all personnel and resources. Information should be gathered, analysed, displayed and decisions made and orders issued on the basis of situation reports received. Therefore, it is the responsibility of the IC to establish and maintain effective communications within the command structure. Specifically, the IC shall ensure:

- i. Setting up a single communication link with the Emergency Operations Centre (EOC).
- ii. Allocation of radios, assignment of channels and call signs which must be adhered to in accordance with the requirements of the Incident Command Structure.

- iii. Establishing communications with other agencies. This may employ radio equipment on agreed channels or direct verbal communications.
- iv. Disseminating to the public, as appropriate, accurate, accessible, and timely information on the incident's cause, size, and current situation; resources committed; and other matters of general interest.

5.6. Debriefing and other Post Incident procedures

Immediately after calling of the response operations, a debriefing should be made to give highlights on the following key issues:

- i. Success or failures noted at the time of the operations
- ii. Strengths and weaknesses of the mass casualty management plan.
- iii. Statistical data of mass casualty victims, i.e. number of deaths, admissions, discharges and referrals to other facilities for further management.

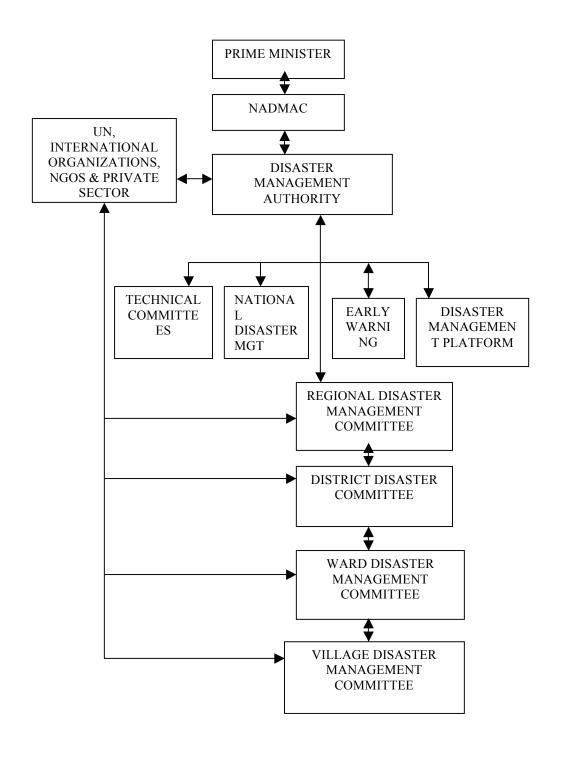
Detailed account of resources used in the operations:

- (i) Number of personnel deployed,
- (ii) Transportation vehicles used
- (iii) Communication facilities applied
- (iv) Quantity and type of material resources used
- (v) Financial resources spent.
- (vi) Lesson learned from the response operation.

The Incident Commander should undertake and/ or supervise the completion of any necessary reports and documentation for the incident, to ensure that a contemporary, complete, accurate report is made available promptly as required.

Although the responding agencies will normally occupied with issues around the emergency phase of the incident, a number of issues may evolve that require post-emergency handling. Such issues may include conducting post-mortems, fire and accident investigations, public or judicial inquiries and criminal investigations. These issues will be handled by competent authorities/agencies.

ANNEX A: DISASTER MANAGEMENT STRUCTURE



ANNEX B: HAZARDS SPECIFIC GUIDELINES

	Hozonde	Drono onoac		i donor		Activity		
	riazai us	I I Ollic al Cas	•	Agency		ACHARY		
			Leading	Support	Preparedness	Response	Recovery	ery
1.	DROUGHT	 Dodoma 	Ministry	MoHSW, PMO-	 Contingency plan 	 Information 	Debriefing	b 0
		• Singida	responsible	RALG,TMA,	 Food and nutrition 	management	 Undertake 	Undertake irrigation
		Mwanza	for	MoLFD, MoW,	situation assessment		schemes	1
		• Shinvanga	Agriculture	PMO,	Stockpile of food		Provision of relief	of relief
		• Simivu	Food	CSOs,PMO	and Seeds		food	
		• Geita	security and		 Early warning 		Provision of food	poof jo
		• Tahora	Cooperatives				and seeds for	for
		Mtwara	(MoAFC)				drought resistance	sistance
		• Lindi					crops	
		• Arusha					• Livelihood	Livelihood recovery
		Manyara		TMA	 Weather and climate 	 Weather and 	 Weather a 	Weather and climate
		Morogoro			Forecast	climate Forecast	information	u
		• Mara			Early Warning			
		• Iringa		NADMAC	 Issue guidance to all 	 Appeals 	Review/evaluation	'aluation
		• Tanga			levels			
		• Kilimaniaro			 Create awareness 			
		omfunutture.			Mobilization of			
					resources			
				MoLHSD	 Land use 	 Resettlement 	 Resettlement 	ent
					management Plan			
					 Resettlement Plan 			
				PMO-RALG	 Construction of 	 Relief 	Seed distribution	ibution
					water reserves	Distribution		
					 Needs assessment 			
					 Create awareness 			
					 Dissemination of 			
					information			
					 Resources 			
					mobilization			
				MoHSW	 Awareness raising 	Provision of	• Trauma m	Trauma management
					and training of	essential health	 Scale up 	
					health service	services as per	comprehensive	nsive
					pioviders	SFILENE	neaun service	AICE

S/No.	Hazards	Prone areas	A	Agency		Activity		
			Leading	Support	Preparedness	Response	Recovery	very
					Assessment of	standards	delivery	
					Nutrition status	 Distribution of 	 Public education 	ucation
					 Stocking up 	food package and	Reconstr	Reconstruction of
					emergency	medications	health facilities	ilities
					medicine, equipment	 Disseminate 		
					and supplies	critical public		
						information		
						 Deploy Mobile 		
						clinic		
				MoLFD	 Surveillance 	 Translocation 	 Public education 	ucation
					 Awareness rising 	Provision of		
						emergency water		
				MoEVT	 Awareness 	• Counselling	Counselling	gu
						 Dissemination of 	• Trauma	
						information	management	lent
							 Public education 	ucation
				MoW	 Construction of 	 Emergency water 	Construction of	tion of
					water reserves	supply	water reserves	erves
					 Review of water 			
					permit			
				Media	Dissemination	 Public information 	Develop	Development stories
				CSO's	 Public Awareness 	 Needs assessment 	Seed dist	Seed distributions
				(NGO,FBO,CB	 Dissemination 	 Appeals and relief 	• Livelihoo	Livelihood recovery
				O's)		distribution	Relief food	pc
							distributions	suo
				COMMUNITY	 Stockpile Food & 	 Relief distribution 	• Undertak	Undertake irrigation
					Seeds	 Needs assessment 	schemes	
					• Dissemination of		Public education	ucation
					Early warning		Debriefing	g _i
					 Participate in needs 			
					assessment			
				P/Sector	Stockpile Food &	 Logistical support 	 Alternative 	ve

Agency Leading Support
UN/Internati onal Agencies
Ministry responsible for Water
PMO_RALG
TMA
NADMAC

S/No.	Hazards	Prone areas	Ag	gency		Activity		
			Leading	Support	Preparedness	Response	[Recovery
					levels			
					• Create awareness			
					Mobilization of			
					resources			
				MoEVT	 Awareness 	 Counselling 	• Con	Counselling
						 Dissemination of 	• Trau	Trauma
						information	man	management
				MoT	 Monitoring 	 Transport 	• Reh	Rehabilitation of
					Preparation of	facilitations	infr	infrastructure
					Contingency Plan	 Needs assessment 		
				MoW	 Risk assessments 	 Temporary bridge 	• Reh	Rehabilitation of
					Preparation	 Needs assessment 	infr	infrastructure
					contingency Plan			
				MoHSW	Preparation of	 Contain epidemics 	• Dise	Disease monitoring
					equipments and	Deploy Mobile	and	and surveillance
					supplies	clinics and	• Con	Continuous mass
					Prepare for	establishment	care	
					managing mass	treatment centres	• Pub	Public education and
					causality	 Deploy advance 	psyc	psychosocial therapy
					 Training of health 	medical response	• Reh	Rehabilitations of
					staffs and	team (ambulance)	heal	health centres
					arrangements for	• Distribution of		
					space	food package and		
					Awareness raising	medications		
					Assessment of	Provision of		
					Nutrition status	essential health		
					Stocking up emergency	services as per		
					medicine, equipment	SPHERE		
					and supplies	standards		
						Disseminate critical		
						public information		

	e Recovery	Security	Enforcement of by Laws	mation • Development stories		ly Restore lifelines	escne					upport • Alternative	ge to investments	Debriefing	•	upport	40		•		• •	• •	• •	• •	• •	• •	• •	• •
Activity	Response	and rescue	Evacuation	Public information		Relief supply	• Search & rescue	Evacuation				Logistical support	CSR package to be used	• Technical,	material and	Financial Support	for response	activities	activities • Public awareness	activitiesPublic awarenessLaw enforcement	activitiesPublic awaLaw enforcAppeals	activities Public awa Law enforc Appeals	activities Public awa Law enforc Appeals	activities Public aware Law enforc Appeals	activities Public awai Law enforc Appeals	 activities Public aware Law enforce Appeals Provision of 		
	Preparedness			-dissemination of information	 Awareness 	Risk assessment and	mapping	 Prepare contingency 	Plan	• Stock pile supplies	medicine)	 Stockpile of supplies 		Technical, material	and financial	support for	preparedness		Dissemination of									
Agency	Support			Media		CSOs						P/Sector		UN/Internationa	1 Agencies				PMO-RALG	PMO-RALG	PMO-RALG NADMAC	PMO-RALG NADMAC	PMO-RALG NADMAC	PMO-RALG NADMAC	PMO-RALG NADMAC	PMO-RALG NADMAC TMA	PMO-RALG NADMAC TMA	PMO-RALG NADMAC TMA
вV	Leading													MoHSW/DM	Α,	NADMAC												
Prone areas														• Entire	country													
Hazards														EPIDEMICS														
S/No.														3.														

Hazards	Prone areas	Ą	gency		Activity		
		Leading	Support	Preparedness	Response		Recovery
			Media	 Public awareness 	 Public information 	•	Developing stories
				Dissemination of information			
				Issue guidance to all	• Appeals	•	Review/evaluation
				levels	11		
				 Create awareness 			
				Mobilization of			
			MoEVT	Awareness	• Counselling	•	Counselling
					Dissemination of	•	Trauma
					information		management
			MNRT	Surveillance	Culling of	•	Translocation of
					infected species		animals and birds
			MoD		 Humanitarian 	•	Humanitarian
					assistance		assistance
			MoW	 Monitoring 	 Continue 	•	Continue monitoring
				 Provision of water 	monitoring of		of system and return
				and sanitation	system		to the normal
				services	 Implement 		services
					succession plan		
			MoLFD	 Surveillance 	 Culling of 	•	Translocation of
				 Vaccination 	infected species		animals and birds
				 Awareness rising 			
			CSOs	 Risk assessment and 	 Relief supply 	•	Restore lifelines
				 Prepare contingency 	 Search & rescue 		
				Plan	 Evacuation 		
				 mapping Stock pile 	 Public awareness 		
				supplies (food, cloth	 Handling of mass 		
				& medicine)	casualties		
				 Dissemination of 			
				Early warning			

S/No.	Hazards	Prone areas	Ą	Agency		Activity		
			Leading	Support	Preparedness	Response	Recovery	
				COMM	 Dissemination of early warning information Participate in needs assessment 	Relief distribution	Participate in by laws enforcement	y laws
				P. Sector	Logistical support	Logistical support	Logistical support CSR package to be used	ort used
				UN/International Agencies	Technical, material and financial support for preparedness	Technical, material and Financial Support for response activities	Debriefing Evaluation	
4	VERMIN & PEST INFESTATI ON	Dodoma Tabora Kigoma Ratavi Mbeya Singida Arusha Shinyanga Simiyu Geita Kagera Morogoro	Ministry responsible for Agriculture	Ministry responsible for local government (MoRALG)	 Preparation of contingency Plan Training of farmers Stocking of appropriate and sufficient supply of pharmaceuticals and ammunition Law enforcement Community awareness on vermin and pest infestation Formation of vermin control brigades and training Preparation of contingency Plan Train farmers through their relevant disaster committees 	Spraying of breeding and infected areas Vermin control Information management Distribution/ supply of drugs Public Information Vulnerability Assessment Vermin control Vulnerability Assessment Vulnerability Assessment	Food supply Public education Debriefing Supply of Farm implements Regular monitoring and Evaluation Strengthen vermin control brigade	n ring
				Ministry Responsible for	Public awarenessPreparation of	Public InformationTo provide key	Public Education	no

S/No.	Hazards	Prone areas	Ą	Agency		Activity		
			T	7	D.c. J.c.	J		D
			Leading	Support	Freparedness	Kesponse		Kecovery
				Communication	contingency Plan	messages to media and public at large	ı,	
				Responsible	 Public awareness 	 Coordinate 	• Co	Coordinate recovery
				Disaster	 Monitoring 	Response	act	activities
				Management	 Preparation of 	operations		
				Committees	contingency Plan			
				Media	Public awareness	 Public information 	•	Public education
				Communities				
ý.	URBAN	 All urban 	Ministry	Private Sector	Public awareness	Provide inputs and		
	FIRE	areas	responsible			services		
			for Home	CSO/UN/Interna	 Technical, material 	 Technical, 	• De	Debriefing
			Affairs, (Fire	tional Agencies	and financial	material and	• Ev	Evaluation
			and Rescue		support for	Financial Support		
			Force)		preparedness	for response		
						activities		
				Ministry	 Preparation of 			
				responsible for	contingency Plan	 Search and Rescue 	1)	
				Detence and National Service				
				Media	Public Awareness	 Public information 		Public education
				Ministry	 Law enforcement 	 Temporary shelter 		Shelter management
				responsible for	 Preparation of 	 Damage and loss 		
				Local	contingency Plan	assessment		
				Government	,			
				MRALG				
				Ministry	 Contingency Plans 	 Removal of debris 	•	Restoration of life
				responsible for	 Provision of service 	 Search and rescue 	lines	es
				Infrastructure	roads			
				Ministry	 Law enforcement 	 Temporary shelter 	•	Resettlement
				responsible for		 Damage and loss 		

Response Assessment Ensure water supply in hydrants and in open water pools Fire fighting Security Damage and loss assessment Search and Rescue Fire fighting Relief supplies Relief supplies Relief supplies Relief supplies Evacuation Information Information management Treatment of Treatment of	Hazards	Prone areas	Ϋ́	Agency		Activity		
Aministry Rural areas Rural areas Ministry Rural areas Ministry Rural areas Ministry Roccol Ministry Roccol Ministry Ministry Roccol Ministry			Leading	Support	Preparedness	Response	Recovery	y
Agriculture development maintenance and supply in hydratus and in open water hydratus. Communities CSO Public awareness Relief Supply Communities CSO Public awareness Relief Supplies and Rescue responsible for Home Affairs. (Fire Affairs, (Fire Affairs)) Affairs (Fire Affairs, (Fire Affairs, (Fire Affairs)) Affairs (Fire Affairs) (Fire Affairs				housing and		Assessment		
Ministry • Installation, responsible for maintenance and supply in hydratus — Preparation of contingency Plan Establishment of open water pools CSO • Rural areas Ministry • Rural areas Ministry Affairs, (Fire Affairs, (Fire Roce Ministry Roce Ministry Affairs, (Fire Affairs, (Fire Roce Ministry Roce Ministry Affairs, (Fire Affairs, (Fire Roce Ministry Roce Ministry Ministry Roce Contingency plan Roce Ministry Roce Ministry Roce Ministry Roce Ministry Roce Contingency plan Roce				development				
water management of fire and in open water hydrants. Preparation of contingency Plan Establishment of open water pools CSO Public awareness Relief Supply Communities - Fire drills and - Security Rural areas Ministry Private Sector Fire drills and - Search and Rescue training for Hone Affairs, (Fire Ministry and Rescue Force) Ministry - Awareness - Fire fighting creation local government Esponsible for Contingency plan - Information local Ministry Build capacity of Fire awareness - Fire fighting creation local Social Welfare - Contingency plan - Information management MoRALG Build capacity of Fire Emperor Plan - Contingency Plan - Contingency Plan - Information Contingency Plan - Contingency Plan - Information Contingency Plan - Contingenc				Ministry responsible for	 Installation, maintenance and 	• Ensure water supply in hydrants	 Regular monitoring of hydrants and open 	nitoring and open
• Rural areas Ministry Private Sector For Fire drills and Rescue Force) • Rural areas Affairs, (Fire Affairs, (Fire Affairs, (Fire Affairs),				water	management of fire hydrants.	and in open water pools	water pools	•
- CSO Public awareness Relief Supply CSO Public awareness Relief Supply Communities - Temporary shelter - Rural areas Ministry Private Sector - Fire drills and responsible for Home Affairs, (Fire and Rescue Force) - Rural areas Ministry Private Sector - Fire drills and responsible for Removal of debris suppressing gears - Security and Rescue Gontingency plan - Relief supplies Ninistry - Awareness - Fire fighting responsible for creation local - Contingency plan - Information government - Law enforcement management MoRALG - Preparation of Firefith and - Preparation of Casualties - Realth and - Preparation of Contingency Plan - Conti					Preparation of continuency Plan			
Communities Relief Supply Communities Private Sector Removal of debris Suppressing gears Contingency plan Relief supplies Ministry Responsible for Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Relief supplies Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Contingency plan Relief supplies Removal of debris Suppressing gears Suppressing gears Security Contingency plan Removal of debris Suppressing gears Security					Establishment of			
Communities - Temporary shelter Rural areas Ministry Private Sector Fire drills and responsible for Force) Ministry Force) Ministry Rocation Affairs, (Fire Force) Fire drills and responsible for responsible for responsible for responsible for responsible for Rocation				CSO	Open water poors Public awareness	Relief Supply	Camp management	gement
• Rural areas Ministry Private Sector responsible for Home Affairs, (Fire Roomside Force) Force) Ministry MoRALG Ministry Ministry MoRALG Ministry Ministry MoRALG Ministry Ministry Moreans Ministry Ministry Moreans Mo							 Relief support 	ıt
 Rural areas Ministry Private Sector Rural areas Ministry Rural areas Ministry Responsible for Home Affairs, (Fire Proce) Ministry Rochting ears Security Contingency plan Private Sector Fire drills and Private Sector Stockpiling of fire Prive fighting Prive fighting Suppressing gears Security Contingency plan Prive Fire fighting Creation Iocal Government Law enforcement MoRALG Ministry Prive Duild capacity of Emergency Units Preparation of Social Welfare Contingency Plan Preparation of Social Welfare Contingency Plan 				Communities	ı	Temporary shelter		
 Rural areas Ministry Private Sector responsible for Home Affairs, (Fire Affairs, (Fire Affairs) Proce) Porce) Ministry Private Sector Price drills and responsible for Removal of debris suppressing gears and Rescue Force) Ministry Private Sector Price drills and Price fighting Price Price fighting Price Price fighting Price Processing gears Price fighting Price Processing gears Price fighting Price Price fighting Price Price fighting Price Price Fire fighting Price Price Price Fire fighting Price P						 Fire fighting 		
 Rural areas Ministry Private Sector responsible for Home Rescue and Rescue and						 Security 		
 Rural areas Ministry Private Sector training for Home Affairs, (Fire and Rescue Force) Porce) Ministry Force Ministry Round Social Welfare Runistry Build capacity of Fire fighting contingency plan fresponsible for Fortingency plan breament and government and government and responsible for Ferengency Units Ruraining Fire fighting and Fire fighting supplies Force) Ministry Contingency plan Fire fighting and preparation of Evacuation management management and preparation of Emergency Units Ruraining Fire fighting and private fighting crasualties Force) Ministry Build capacity of Fire fighting and preparation of Social Welfare contingency Plan 						 Damage and loss 		
 Rural areas Ministry Private Sector training for Home Affairs, (Fire and Rescue and Rescue and Rescue and Rescue						assessment		
for Home Affairs, (Fire and Rescue Force) Force) Ministry Rosponsible for creation local government Rosponsible for responsible for responsible for responsible for Rosponsible for Rospons	H	 Rural areas 	Ministry	Private Sector	 Fire drills and 	 Search and Rescue 	 Public education 	ıtion
Home irs, (Fire Rescue Rescue Rescue Rescue Rescue Rescue Rescue Rescue Ministry - Awareness Contingency plan Responsible for Creation Rovernment Rovernment Rovernment Rower Rescue Responsible for Contingency plan Rower Rescue Rescue Responsible for Respon	(-)		Sons		training	 Fire fighting 	 Rehabilitation 	u
Rescue Rescue Contingency plan Relief supplies Contingency plan Price fighting responsible for Creation Bovernment Rowerds Contingency plan Rowerds Contingency plan Rowerds Contingency plan Rowerds Contingency Date Contingency Date Contingency Plan Social Welfare Contingency Plan Contingency Plan Rescueits Responsible for Reparation of Contingency Plan Continge			for Home		 Stockpiling of fire 	 Removal of debris 	 Compensation 	nc
Ministry Ministry Creation Ocal Bovernment MoRALG Ministry Ministry Mealth and Contingency plan Contingency plan Contingency plan Contingency plan Contingency plan Contingency plan Build capacity of Emergency Units Casualties Contingency Plan Responsible for Contingency Plan Responsible for Contingency Plan Responsible for Contingency Plan Responsible for Contingency Plan			EZ.		suppressing gears	 Security 	through insurance	rance
Ministry- Awareness• Fire fightingresponsible for local• Contingency plan government• EvacuationMoRALGLaw enforcement managementMinistry• Build capacity of responsible for responsible for responsible for Health and social Welfare• Preparation of contingency Plan					 Contingency plan 	 Relief supplies 		
nsible for creation Contingency plan ananagement ALG Build capacity of Emergency Units hand Preparation of Information Treatment of Emergency Units casualties I Welfare contingency Plan			rorce)	Ministry	 Awareness 	 Fire fighting 	 Public education 	ıtion
 Contingency plan management Law enforcement management Law enforcement management Build capacity of Emergency Units casualties Preparation of contingency Plan 				responsible for	creation	 Evacuation 	 Law enforcement 	ment
 Law enforcement management Build capacity of Emergency Units casualties Preparation of contingency Plan 				local	 Contingency plan 	 Information 	 Environmental 	tal
 Build capacity of Emergency Units casualties Preparation of contingency Plan 				government MoRALG	• Law enforcement	management	rehabilitation	С.
Emergency Units casualties Preparation of contingency Plan			•	Ministry	Build capacity of	Treatment of	Trauma management	agement
Preparation of contingency Plan				responsible for	Emergency Units	casualties		0
_				Health and	 Preparation of 		 Psychosocial support 	l support
How				Social Welfare MoH	contingency Plan			

S/No.	Hazards	Prone areas	Ą	Agency		Activity		
			Leading	Support	Preparedness	Response		Recovery
				Ministry	 Contingency plan 	Fire fighting	• Aff	Afforestration
				Responsible for	 Law/bylaws 	 Evacuation 		
				Forestry	enforcement	Information		
					 Fire fighting drills 	management		
					 On job trainings 	• Establishment of		
					Establishment of fire	fire breaks Search and Rescue		
				Ministry	I aw enforcement	Dealest and Mesodo	•	Environmental
				responsible for	Contingency plan	•		damage assessment
				Environment	• Contingency pian			
				Media	 Awareness creation 	Public information	·	-Public education
				CSO	 Awareness creation 	 Relief support 	• Reli	Relief support
						• Trace of lost	• Reh	Rehabilitation and
						person and family	recc	recovery
						re union		
7.	ROAD/	 urban areas 	Ministry	Private. Sector	 Contingency plan 	Fire fighting	•	Public education
	KAILWAY	and along	responsible		Fire drills and	Search and rescue	•	Debriefing
	ACCIDEN	highways	for Home		training			
	7 2	 Railway 	attairs(MoH		 Stockpiling of fire 			
		and on railwav	A) (Police) (Fire		suppressing gears			
		crossings	and Rescue)	Ministry	Preparation of	Handling of mass	• Psy	Psychosocial support
				responsible	contingency Plan	casualties and	• Scal	Scale up
				for Health	 Build capacity of 	dead bodies	con	comprehensive
				and Social	Emergency Units	Deploy Mobile	heal	health service
				Welfare	 Preparation of 	clinics and	deli	delivery
				(MoHSW)	contingency Plan	establishment	• Put	Public education
					 Preparation of 	treatment centres		
					equipments and	Deploy advance		
					salddns	medical response		
					 Prepare for 	team (ambulance)		
					managing mass	and medications		
					causality	• Provision of		
					I raining of health			

S/No.	Hazards	Prone areas	Ą	Agency		Activity	
			Leading	Support	Preparedness	Response	Recovery
					staffs and arrangements for space Stocking up emergency medicine, equipment and supplies	essential health services as per SPHERE standards • Disseminate critical public information	
				Ministry responsible for Local government	Preparation of contingency Plan	 Bury of un identified bodies Removal of damaged vehicles Maintenance of Infrastructures Install road user safety signs and features 	Rehabilitation of Infrastructures, user safety signs and features
				Media	 Public awareness 	 Public information 	 Public education
				Ministry responsible for Infrastructure	 Install road and railway user safety signs Maintenance of infrastructures Preparation of contingency Plan 	Removal of damaged vehicles	• Infrastructure rehabilitation
				Ministry responsible for Defence and National services	Preparation of contingency Plan	Search and rescueSecurityTemporaryinfrastructure	Infrastructure rehabilitation
				Ministry	 Contingency plans 	Removal of	Rehabilitation of

	Recovery	 railways facilities 	Camp managementRelief support		 Compensation through Insurance Public education Rehabilitation 	 Debriefing Support victims Mass burial 	 Investigation Assist the victims on their rights(Insurance)
Activity	Response	 damaged railways facilities, vans and engines 	Relief Supply	Search and RescueSecurityDead bodyplacement	 Removal of damaged vehicles Ambulance services Search and Rescue Handling of mass casualty 	Information management Mobilization of resources/logistics Activate emergence operation centre Search and rescue	 Search and rescue Handling of dead bodies Investigation Handling of casualties/Triage
	Preparedness	Regular inspection of vehicles	Public awareness	ı	 Ensure effectiveness of ambulance services Capacity building Drills and training 	 Inspection of vessels Development of contingency plan Law enforcement Training and drills Procurement of search and rescue equipment Public awareness Early warning 	 Procurement of search and rescue equipment Availability of medical resources
Agency	Support	responsible for Transport	CSO	Communities	Private Sector	MoHA,SUMAT RA,TPA,MSCL, MIYCS, REDCROSS TMA, MLDF	MoHA MoH, SUMATRA,TP AMSCL,SHIPPI NG COMPANIES, RED CROSS
Ą	Leading					MoT	
Prone areas						Ocean and Lakes Dams and rivers.	
Hazards						MARINE ACCIDEN TS	
S/No.						×.	

	Recovery	 Trauma 	management	• Scale up	comprehensive	health service	delivery	 Public education 	•														Public education	Support victims				 Debriefing 	 Evaluation 		
Activity	Response	 Handling of mass 	casualties and	dead bodies	 Deploy Mobile 	clinics and	establishment	treatment centres	 Deploy advance 	medical response	team (ambulance)	 and medications 	 Provision of 	essential health	services as per	SPHERE	standards	 Disseminate 	critical public	information	ı		Public information	Mobilization of	resources	 Support search 	and rescue	 Technical, 	material and	Financial Support	ror response activities
	Preparedness	 Build capacity of 	Emergency Units	 Preparation of 	contingency Plan	 Preparation of 	equipments and	supplies	 Prepare for 	managing mass	causality	 Training of health 	staffs and	arrangements for	space	 Awareness raising 	Assessment of	Nutrition status	 Stocking up 	emergency	medicine, equipment	and supplies	List of Media Houses Training	Procurement of	search and rescue	equipment	 Public awareness 	 Technical, material 	and financial	support for	preparedness
gency	Support	MoHSW,																					Media,MAELE ZO	NGO/CBO				UN/Internationa	l Agencies		
Ϋ́	Leading																														
Prone areas																															
Hazards																															
S/No.																															

	Recovery	Investigation-		Debriefing	Investigation	Support victims	Mass burial	Assist the victims on	(Ilell rights/Insurance)						Debriefing	Investigation	Support victims	Mass burial	Assist the victims on	their	rights(Insurance)				Dobingting	Debriering			
		•		•	•	•	•								•	•	•	•	•										
Activity	Response	Information Management		Search and rescue	Fire fighting	Activate	emergency	operation centre	(EOC, SNC) Handling of dead	bodies	Investigation	Handling of	casualties		Search and rescue	Fire fighting	Activate	emergency	operation centre	(EOC, SRC)	Handling of dead	bodies	Investigation	Handling of	casualties	Handling of mass	casualnes		
		•		•	•	•	· ·		_	•	•	•			•	•	•				•		•	•	+	_			
	Preparedness	Develop contingency plan	Inspection of Aircraft				Simulation exercises	Development of	Law enforcement	Training and drills	Procurement of	search and rescue	equipment	Public awareness	Inspection of	Aircraft	Development of	contingency plan	Law enforcement	Training and drills	Procurement of	search and rescue	equipment	Public awareness	11 14.1	Hospital	Contingency plans	Availability of	Medical resources
		•	•				•	•	•	•	•			•	•		•		•	•	•			•		•		•	
Agency	Support	Airlines,TAA,T CAA		TCAA,TAA	•	FIRE AND	RESCUE	FORCE, Mo	,MoHSW,R	ED	CROSS,P.S	ECTOR,AI	KLINES		MoHA	TCAA,TAA,TP	A, FIRE AND	RESCUE	FORCE, MoHA,	MoDNS, MoHS	W,KIA,KEU	CKUSS, P.SECI	OK,AIKLINES		Metrow	W SHOM			
A	Leading	MoT																											
Prone areas		Entire country																											
Hazards		AIRCRAFT ACCIDENTS																											
S/No.		6																											

S/No.	Hazards	Prone areas	Ą	gency		Activity			
			Leading	Support	Preparedness	Response		Recovery	
				Tanzania	Contingency plan	 Handling of 	•	Debriefing	
_				Airports	• Drills	victims	•	Investigation	
				Authority, Air		 Information 	•	Support victims	
_				lines,MoHSW		management	•	Mass burial	
_						 Establishment of 		Assist the victims on	
						rescue centre		their	
								rights(Insurance)	
				MoLYD,	Availability of	 Establishment of 	• J	Trauma	
				MoHSW,	resources	centres		management	
_				FBOs,	Availability of		•	Memorial	
				MoHA	names and their				
					communication				
				Media, MIYCS,	List of Media Houses	 Public education 	•	Public education	
					Training	 Training 			
				CSOs	Procurement of	 Rescue 	•	Support victims	
					rescue equipment				
					Public awareness				
				UN/Internationa	Technical, material	• Technical,	•	Debriefing	
				1 Agencies	and financial	material and	•	Evaluation	
					support for	Financial Support			
					preparedness	for response			
						activities			

S/No.	Hazards	Prone areas	Ay Leading	Agency Support	Preparedness Improve weather	Activity Response Information	• M	Recovery Weather Information
•	WINDS	, •		C TATE	forecast Risk assessment and mapping Installation of warning system	management		auci miorinaton
				LOCAL GOV. AUTHORITIES ,TMA,MOHA,M IYCS/MCST, Min. responsible for Land use and Human Settlement, MoHSW, RED CROSS	 Develop contingency plan Installation of wind breakers Establish emergency communication system Training and drills Law enforcement Public awareness 	 Provide emergency shelter, food, clothing and water Provide Medical supplies 	• •	Resettlement programme Debriefing
				MoHA,TMA,M oDNS,LOCAL GOVERNMEN T AUTHORITIES	Drills and equipment	Conduct search and rescueEvacuationInvestigation	• Inv	Investigation
				MoHA, MoHSW,REDC ROSS, CBOs, NGOs, FBOs	 Hospital Contingency plans Availability of resources 	 Handling mass casualties 	• Inv • Sup • Mas Ass	Investigation Support victims Mass burial Assist the victims on their rights(Insurance
				Media MAELEZO	 List of Media Houses Training Public Education 	Public information		- Public Education
				MoLYD	 Availability of 	 Establishment of 	• Tra	Trauma

	Recovery	management					Restoration of	lifelines	Restoration of	lifelines	 Resettlement 	programme			 Restoration of 	lifelines		D.L.:f.	• Debrieting	 Evaluation 			
Activity	Response	centres	 Handling mass 	casualties			1		1		 Emergency 	shelter, food and	clothes	 Medical supplies 	 Provide 	emergency shelter,	Iood, clouning and	water -	• recullical,	material and	Financial Support	for response	activities
	Preparedness	resources	 Availability of 	names and their	communication	address	ı		1		 Training and drills 	 Public awareness 			 Public awareness 	 Stockpiling supplies 		Topical metalial	• recimical, material	and financial	support for	preparedness	
Agency	Support	MoHSW, FBOs					MoW and	Agencies	MoT		NGO/CBO,RED	CROSS			Private Sector			I IN/Internationa		1 Agencies			
Y	Leading																						
Prone areas																							
Hazards																							
S/No.																							

	Recovery	Debriefing	Education on land	laws		Negotiation Civic education		Securing affected areas	Public education	Scale up comprehensive health service delivery Public education
		•	•			• •		•	•	•
Activity	Response	SecurityInformation	Land allocation			-Mobilization and distribution of	resources	Handling mass casualties	Public informationPublic Education	Provision of essential health services as per SPHERE standards Disseminate critical public information
	Preparedness	Contingency plan Security	Defined boundaries	Prepare Land use plan	Adhere to land use plan	Temporary shelter/ relief supplies	Conflict resolution	Public awareness Simulation exercises	List of Media Houses Training	Build capacity of Emergency Units Preparation of contingency Plan Preparation of equipments and supplies Prepare for managing mass causality Training of health staffs and arrangements for space Awareness raising Assessment of Nutrition status
		• •	•	•	•	•	•	• •	• •	
Agency	Support	,MoDNS	Min. responsible	for Land use and Human	Seutement Local Government.	PMO-RALG, MoHA,	MoHSW RED CROSS	MoHSW, MoDNS, MoHA	Media, MAELEZO	MoHSW
A	Leading	MoHA								
Prone areas		Kilimanjar O Arnsha	• Kagera	MorogoroMbeya	MaraDodomaManyara	• Geita	Fillel			
Hazards		CONFLIC TS / Internally	Displaced	(IDPs)						
S/No.		11								

S/No.	Hazards	Prone areas	Ag	gency		Activity		
			Leading	Support	Preparedness	Response	R	Recovery
					Stocking up emergency medicine, equipment and supplies			
				CSOs	Availability of resourcesTrainings	Temporary shelterRelief supplyCivic and public education	• Publi	Public education
				Private Sector	Temporary shelter/ relief suppliesConflict resolution	Mobilization and distribution of resources	Negc Civic	Negotiation Civic education
				P. Sector	Training and DrillsStockpiling supplies	Removal of damaged vehicles	• Reha	Rehabilitation
				UN/Internationa	Technical, material	• Technical,	• Debr	Debriefing
				l Agencies	and financial support for preparedness	material and Financial Support for response activities	• Eval	Evaluation
12.	LANDSLI DES	TangaLindiDuranga	PMO-RALG		Public educationProvision of	Emergency shelters and other sumplies	• Relo	Relocate people to new settlement
		• Tabora• Kilimanjar• O			Establish early warning systems	Information management	(dem	(denude) areas
				MoLUS	 Risk assessment and mapping Contingency plans Laws enforcement 	Rapid assessment	Dama Instit plan	Damage assessment Institute land use plan
				MoHA	1	 Search and rescue 		1
						Evacuation Security		
						Investigation		

	Recovery	 Scale up comprehensive 	health service	delivery	 Public education 																Restoration of	lifelines	 Public education 	 Trauma 	management	 Damage assessment 	 Reseed the affected 	(denude) areas	 Damage assessment 		
Activity	Response	 Handling of mass casualties 	 Provision of 	essential health	services as per	SPHERE	standards	 Disseminate 	critical public	information	•										Removal of debris		 Public information 	1		Emergency	shelters and other	supplies	 Rapid assessment 	 Search and rescue 	Evacuation
	Preparedness	 Build capacity of Emergency Units 	 Preparation of 	contingency Plan	 Preparation of 	equipments and	supplies	 Prepare for 	managing mass	causality	 Training of health 	staffs and	arrangements for	space	 Awareness raising 	Assessment of	Nutrition status	 Stocking up 	emergency	medicine, equipment and supplies -	,		 Public Education 	1		Risk assessment and	mapping				
gency	Support	MoHSW																			MoW		Media	MoLYD		NGO/CBO					
A	Leading																														
Prone areas																															
Hazards																															
S/No.																															

S/No.	Hazards	Prone areas	Ag	gency		Activity	
			Leading	Support	Preparedness	Response	Recovery
				COMM.	Traditional early	Emergency shelter	 Reseed the affected
					warning	 Removal of debris 	area
						 Security 	
				P. Sector	1	 Removal of debris 	ı
13.	EARTHQU	• Regions	Ministry		Household	 Activate 	 Assessment to
	AKE	along Rift	responsible		Emergency Plan	household	determine extent of
		Valley	for Local		Identify safe places	emergency	damage
		• Mbeya	government		for public gatherings	procedures	 Relocate people to
		• Ruvuma			Education and	 Utilize allocated 	new settlement
		• Arusha			public Awareness	areas for shelter	 Reseed the affected
		• Kigoma			creation	 Utilization of 	(denude) areas
		• Rukwa			Stockpiling of	emergency supply	 Debriefing
		• Dodoma			supplies	and relief stocks	 Removal of debris
					Disaster Drills	 Rapid assessment 	
					Develop & apply	•	
					building code		
					• Establish early		
					warning systems		
					Conduct Risk		
					assessment and		
					mapping		
					•		
				Ministry	Risk assessment and	:	•
				responsible,	mapping (hazard	 Rapid assessment 	• Disaster assessment to
				Energy &	maps)		determine extend of
				Minerals.	Early warning		damage;
					systems & timely		 Update hazard maps;
					dissemination of		 Research on past &
					info		future events
					Contingency plan		

	Recovery	• Assessment of land /	property loss	• Allocation of new land	sites		• Psychosocial services	 Medical treatments 	• Scale up	comprehensive health	service delivery	Public education															
Activity	Response	 Rapid assessment 	•				 Contain infectious 	diseases and mass	burials	 Deployment of 	mobile health	facilities	 Handling of mass 	casualties	 Provision of 	essential health	services as per	SPHERE	standards	 Disseminate 	critical public	information					
	Preparedness		 Risk assessment and 	mapping	 Contingency plans 	 Laws enforcement 	 Build capacity of 	Emergency Units	 Preparation of 	contingency Plan	 Preparation of 	equipments and	supplies	 Prepare for 	managing mass	causality	 Training of health 	staffs and	arrangements for	space	 Awareness raising 	Assessment of	Nutrition status	 Stocking up 	emergency	medicine, equipment	and supplies
Agency	Support	Ministry	responsible for	Housing/Land			Ministry	responsible for	Health																		
Ą	Leading																										
Prone areas																											
Hazards																											
S/No.																											

S/No.	Hazards	Prone areas	Å	Agency			Activity		
			Leading	Support	Preparedness		Response		Recovery
					•				
				Ministry	• Trained & skilled	•	Search and rescue	•	Investigation
				responsible for	rescue personnel	•	Evacuation	•	Maintain law &
				Home Affairs	available;	•	Security		order;
					Material resources for	•	Investigation	•	
					rescue plans				
				Ministry	Develop an	•	Information	•	Public education &
				responsible for	Emergency		management		information
				Information/Co	Communication	•	Hetablish one-		dissemination
				mmunication	Plan	1	ston-information		awareness
					Enhance Traditional		centre	•	Restoration of
					early warning	•	Active traditional		damaged
					system		warning system		communication
					• Public education and	•	utilize one-stop-		infrastructures
					awareness on Disaster		information centre		Public education &
					Risk Reduction	•	Dissemination of		information
					Availability of		up-to-date info;		dissemination
					Emergency	•	Public education		awareness
					Communication		to respond on the	•	Restoration of
					infrastructure Plan		ongoing disaster		damaged
					Implementation of		situation		
					emergency	•	Deploy emergency		
					communication		Communication		
					infrastructures		networks		
					• Establish one-stop-				
					information centre				
					Enhance I raditional				
					early warning system				

Support
Ministry responsible for of emergency feed
roads/rails/airfields/
marine ports
Educate, sensitize & info
dissemination DRR
Train on
Tabour chile
<u> </u>
•
Private sector Government
activities
•
Stockpiling supplies
Capacity building
Develop emergency
responsible for protection plans in Education
Develop training
programme on DRR
UN/Internationa • Technical, material
and financial
support for
preparedness

	Recovery	Execute Disaster Recovery / Business Continuity Audit Program Damage assessment Administer Health & Safety Guidelines Investigation Debriefing	
Activity	Response	Search and rescue Evacuation/ Invacuation Contain explosion Information management Handling of dead bodies Investigation Security Mobile health centres for casualties Cordoning affected areas	
	Preparedness	Household Emergency Supply Kit (non-perishable food, water, hand radio, etc Community's warning systems; Family and community Disaster plans, evacuation routes, warning systems (radiation detectors) Establish Local Emergency Planing Committees (LEPCs) – collect info on hazardous materials in the community and making this information available to the public (mines, fishing) Establish disaster recovery plan Adhere to Planning Guidance for Response to a	nuclear explosion
		• • •	
ncy	Support		
Agency	Leading	Ministry responsible for Home Affairs, Ministry responsible for Defence and national service, Ministry responsible for Energy and Mining	
Prone areas		Dar es Salaam Arusha Kilimanjaro Shinyanga Singida Mara Mtwara Lindi Coast region Ruvuma	
Hazards		EXPLOSI ON (Bombs, Industrial, Mining and Fishing), nuclear radiation	
S/No.		14.	

¹ Available at http://www.epa.gov/rpdweb00/docs/er/planning-guidance-for-response-to-nuclear-detonation-2-edition-final.pdf

S/No.	Hazards	Prone areas	Ag	Agency		Activity	
		1	Leading	Support	Preparedness	Response	Recovery
					Awareness creationDrills		
				Ministry.	 Laws enforcement 	Temporary shelter	Damage assessment
				Responsible for		and relief supplies	 Identify all affected
				Local and		Search and rescue	households
				Regional Administration		Cordoning affected areas	ı
				Ministry.	 Industrial inspection 		Trauma management
				responsible for labour	(OSHA)		
				Min	 First aid training 	Deployment of	Monitoring of
				responsible for Health		mobile	radiation
					 Emergency and disaster 	er • health facilities	levels, casualties,
					management training	Handling of mass	Scale up
					for health personnel	casualties	comprehensive health
					Preparation of	Provision of	service delivery
					Contingency Flan Preparation of	essential health	Public education
					equipments and	services as per	Reconstruct critical health
					supplies		facilities
					 Prepare for managing 	standards	
					mass causality	• Disseminate	
					 Iraining of health staffs and arrangements for 	SI	
					space	information	
					 Awareness raising 		
					Assessment of		
					 Nutrition status 		
					 Stocking up emergency 	y:	
					medicine, equipment		
					and suppnes		

S/No.	Hazards	Prone areas	7	Agency		Activity			
			Leading	Support	Preparedness	Response		Recovery	
				Ministry Responsible for Works		•		Restoration of lifelines	
				Media	Educate, sensitize & info dissemination DRR	• Educate, sensitize & info dissemination	ize	• Educate, sensitize & info dissemination	ize & ion
				NGO/CBO/	Support government	 Evacuation 		 Continue to support 	port
				private sector	activities & initiatives	Search and rescueTemporary shelters	sue Iters	government activities & initiatives	ivities
						and relief supplies Rapid assessment	lies		
				Ministry	 Build capacities in schools 	Apply emergency	ıcy	 Continue build 	
				responsible for	on explosion disasters	protection		capacity on DRR	R
				Education	 Develop emergency 	programs			
					explosion protection plans	• Contain students &	ts &		
					in curriculum	pupils in case of	Jí		
					 Test emergency explosion 	emergency			
					protection programs				
				Ministry	 Monitoring of mining 	Rapid Assessment	nent	 Debriefing 	
				responsible for	activities with potential	•		 Evaluation 	
				Natural resources	impacts to wild flora and			 Assessment to 	
				and tourism	fauna			determine the extent	xtent
					 Law enforcement 			of damage to natural	atural
								resources	
				Tanzania atomic	 Monitor mining activities 	 Rapid damage 		 Damage assessment 	ment
				energy Agency	with potential radiation	assessment		 Debriefing and 	
					impacts	 Retrofitting 		evaluation	
				UN/International	 Technical, material and 	• Technical, material	erial	 Debriefing 	
				Agencies	financial support for	and Financial		 Evaluation 	
					preparedness	Support for	•		
						response activities	ties		

S/No.	Hazards	Prone	7	Agency		Activity	
			Leading	Support	Preparedness	Response	Recovery
15.	VOLCANIC ERUPTIONS A hard rain of abrasive particles	Regions along Rift Valley Arusha Kilimanja ro Mara	Min responsible for Local Governmen t		 Develop and test a contingency plan that can be used in a variety of emergencies e.g. Settlement Emergency Plan for livestock and wild animals Provide information frequently and directly to the public about volcanic ash Develop IC network with nearby Aviation control towers 	Send Information to Aviation control towers to block the airspace Activate household emergency procedures Utilize allocated areas for shelter Utilization of emergency supply stocks Rapid assessment Temporary shelter and relief supplies	Damage assessment Building capacity for preparedness
				Ministry responsible, Energy & Min.	 Early warning systems & timely dissemination of info Risk assessment and updating hazard maps available 	 Research during event and timely information dissemination 	 Disaster assessment; Update hazard maps; Research - past & future events
				Min responsible for Lands	 Risk assessment and mapping Contingency plans 	Executecontingency plans	 Rapid assessment of land / property loss Allocation of new land sites
				Min responsible for Health	 Trained & skilled personnel; Availability & distribution Educational materials on² 	 Establish health centres & mobile units Contain infectious 	 Provide psychosocial services Scale up comprehensive health

² Health Hazards of Volcanic Ash - A Guide for the Public' on the International Volcanic Health Hazard Network (IVHHN) www.ivhhn.org/images/pamphlets/Preparedness_Guidelines_Swahili_WEB.pdf

S/No. Hazards	Prone	A	Agency		Activity	
		Leading	Support	Preparedness	Response	Recovery
				 health hazards of volcanic 	diseases and mass	service delivery
				ash	burials	 Public education
					 Timely Handling of 	 Reconstruct critical
					mass casualties	health facilities
					 Emergency shelters³ 	
					 Deployment of 	
					mobile health	
					facilities	
					 Handling of mass 	
					casualties	
					• Provision of essential	
					health services as per	
					SPHERE standards	
					 Disseminate critical 	
					public information	
			;			
			Min responsible	• Trained & skilled rescue	• Search and rescue	• Maintain law & order;
			101 HOINE AILAIIS	personnel available;	 Evacuation people 	
				 Material resources for 	downstream	
				rescue plans	 Tightening security 	
			Min responsible	Develop an Emergency	• Information	• Public education &
			for Information	Communication Plan	management	information
			&	 Enhance Traditional early 	 Establish one-stop- 	dissemination
			Communication	warning system	information centre	awareness
					 Emergency 	 Restoration of damaged
					Communication	communication
					facilities available	Infrastructure
					 Active traditional 	

S/No.	Hazards	Prone	7	Agency		Activity	
		areas	Leading	Support	Preparedness	Response	Recovery
						warning system	•
				Min responsible for Natural Res.	 Develop emergency plan for the wildlife grazing areas in NCA 	• Rescue / evacuate vulnerable & endangered and	 Monitor movement of wildlife & migrating animals
					 Develop emergency plan for the Tourists in NCA & Serengeti 	infants in safe places	
				Min responsible for water	Develop emergency water supply plans	Functional emergency water supply system for people, livestock and wildlife	• Drill wells to supply water for settlements and wildlife
				Min responsible for Education	• Build capacities in schools on ash fall disasters	Apply emergency protection programs	• Continue build capacity on RDD
					 Develop emergency ash fall protection plans in curriculum 	• Retain students & pupils in case of ash fall emergency	
					 Test emergency ash fall protection programs 		
				TMA	• Establish weather stations and a record of daily/monthly wind movements and rains	• Inform the public the wind direction & rains during eruption time;	Continue monitoring weather conditions
				Media/Min. Responsible for Communication	• Educate, sensitize & info dissemination DRR	• Educate, sensitize & info dissemination	• Educate, sensitize & info dissemination
				CSOs/ Private sector	 Support Government activities / initiatives 	 Support public appeals 	 Support Government initiatives & activities.
						 Temporary shelter and supplies Rapid assessment 	
				UN/International Agencies	 Technical, material and financial support for preparedness 	Technical, material and Financial Support for response	DebriefingEvaluation
						activities	

16 NATURA • Regions Min L GAS along responsible WELLS & Southern for Energy PIPE part of & Min EXPLOSI Rift ONS; Valley NATURA • Dar es L Salaam CARBON • Lindi DIOXIDE • Mtwara LEAKAG • Mwanza ES IN VOLCANI C AREAS				
NATURA - Regions L GAS along WELLS & Southern PIPE part of EXPLOSI Rift ONS; Valley NATURA - Dar es L CARBON - Lindi DIOXIDE - Mtwara LEAKAG - Mwanza ES IN VOLCANI C AREAS C AREAS	ding Support	Preparedness	Response	Recovery
LS & Southern Part of DSI Rift Valley JRA • Dar es Salaam SON • Lindi IDE • Mwanza CAG • Mwanza CANI EAS		• Map carbon dioxide(CO ₂)	• Ensure community	 Continue monitoring
DOSI Rift Valley NRA • Dar es Salaam SON • Lindi DE • Mtwara AAS • Arusha • Arusha	nsible	gas vents in the Rungwe	infrastructure centres	CO ₂ gas spillage in
DOSI Rift Valley JRA • Dar es Salaam SON • Lindi IDE • Mtwara CAG • Mwanza CANI EAS	nergy	Volcanic Province and	schools, hospitals,	valleys;
JRA JRA JANI JANI JANI JANI JANI JANI JANI JAN	n	produce CO ₂ gas hazard	mosques, churches	• Install warnings in CO ₂
SON CAGE		maps	are well ventilated;	vents & downstream
		Develop and Community	• Execute Community	areas
		Emergency preparedness	Emergency	 Damage assessment
		plans (flammability,	preparedness	 Building capacity for
		reactivity to air or water,	programs	preparedness
		corrosion, & toxicity).	• Communicate	• Continue support
<u> </u>		Develop communication	leakages / spillage to	emergency units
		and determination plans at	higher authorities	
C AREAS		community level	(TPDC)	
		• Establish full pledged	• Emergency gas repair	
		regional emergency gas	units to act timely	
		pipe repair units		
	Min responsible	 Trained & skilled rescue 	 Search and rescue 	 Maintain law &
	for Home Affairs	personnel available;	• Evacuation people &	order;
		 material resources for 	households	•
		rescue plans	downstream	
		 material resources to fight 	 Tightening security 	
		gas leakages		
	;	-		
	Min responsible	Risk assessment & proper	• Stop agricultural	 Rapid assessment of
	for Lands	land use planning in areas	activities	land / property loss
		located along the gas pipes	•	•
		 Contingency plans for gas 		
		explosions		
	Min responsible	• Trained & skilled	• Establish health	Counselling services
	for Health	personnel;	mobile units	 Medical treatments
		• Develop first aid treatment	•	Dissemination of public
		& rescue plans		health info
	MEDIA	• Educate, sensitize & info	ullet Educate, sensitize $&$	• Educate, sensitize &

S/No. Ha	Hazards	Prone	Ą	Agency		Activity	
		al cas	Leading	Support	Preparedness	Response	Recovery
					dissemination DRR	info dissemination	info dissemination
				UN/International	• Technical, material and	• Technical, material	• Debriefing
				Agencies	inancial support for	and Financial Support	 Evaluation
				Agencies	financial support for	for response activities	
				CSOs/ Private sector	Support Government activities / initiatives	Respond to public appeals	• Support Government initiatives & activities.
					•	 Temporary shelter and supplies Rapid assessment 	
MUDD LLS & MUDD WS	MUDFAL LS & MUDFLO WS	Kilimanj aro & Tanga - North & South Pare Mountai ns Morogor o - Uluguru Mountai ns Mo Morogor o - Uluguru Mountai ns Mbeya - Rungwe Volcanic Province	Min responsible for Lands		 Public education on proper land use Develop household emergency plans Establish warning systems for heavy rainfall Develop long term preventive measure plans during heavy rains Law enforcement 	Activate household emergency procedures Utilize allocated areas for shelter Utilization of emergency supply stocks Rapid assessment & supply of temporary shelter and relief supplies	•Relocate people to new settlement in devastated areas •Execute long term preventive measure programs •Land damage assessment & institute land use plan
				Min responsible for Energy & Min	Risk assessment on slope stability;Mapping of hazard areas	• Rapid assessment & update hazard maps	•Continue research

S/No.	Hazards	Prone	7	Agency		Activity	
		areas	Leading	Support	Preparedness	Response	Recovery
					•	•	•
					•	•	•
				Ministry responsible for Home Affairs	 Trained & skilled mountain climbing rescue personnel available; material resources for rescue plans 	 Search and rescue Evacuation Security Investigation 	Maintain law & order; -
				Ministry responsible for Health	 Trained & skilled personnel; material resources Availability & distribution Educational materials 	 Search & Evacuate Timely Handling of mass casualties Counselling services Emergency shelters 	 Counselling services Medical treatments Dissemination of public health info
					•		
				Ministry responsible for	Plan for availability of emergency feeder roads	Use of emergency feeder roads	Restoration of roads, bridges
				Infrastructure	outlet include heliports-	Removal of mudflows	oneges
				Min responsible	 Public education on DRR; 	Information	• Public education &
				for Info. & Communications	Availability of Communication	management Establish one-ston-	information dissemination
					infrastructure Plan	information centre	awareness
					• Enhance Traditional early warning system	• Dissemination of up-to-date info;	Restoration of damaged comm
							Infra
						 Public education 	
						Availability of	
						Communications network	

S/No.	Hazards	Prone	7	Agency		Activity		
		areas	ļ		-	f		f
			Leading	Support	Preparedness	Response		Recovery
						•		
				Media/Min.	• Educate, sensitize & info	• Educate, sensitize	1)	Educate, sensitize &
				responsible for	dissemination DRR	& info		info dissemination
				Communication		dissemination		
				Min responsible	• Develop children's	 Apply emergency 	• /	Continue build
				for Education	emergency protective plans	protection		capacity on RDD
					in curriculum	emergency		
					 Test emergency programs 	programs		
					Support Government	 Emergency shelters 	SIS	Continue supporting
				Private sectors	initiatives & activities.	and other supplies	s	Government
						 Rapid assessment, 	r,	initiatives &
						search & rescue/		activities.
						Evacuation		
				UN/International	 Technical, material and 	 Technical, material 	al	Debriefing
				Agencies	financial support for	and Financial		Evaluation
					preparedness	Support for		
						response activities	S	
18.	TERRORI	Entire	Ministry		 Security 	Cordon		Search for culprits
	\mathbf{SM}	Country	responsible		 Awareness creation 	 Evacuation 		Debriefing
			for Home		 Intelligence 	 Search and rescue 	0)	Investigation
			attairs		 Contingency plan 	Rapid assessment		
					 Install special signal and 	 Handling of dead 		
					sirens	bodies		
					 Establish evacuation 	• Crowd		
					system	management/		
						special group		
						 Information 		
						management		
						 Investigation 		
				PMO-RALG	 Negotiations 	Relief supplies		Public education
				Media/ Ministry	• Good Linkages with	Public information	ш	Public education
				responsible for Information	Lead Ministry &			
				Пиониции	Community		_	

S/No.	Hazards	Prone	7	Agency		Activity		
			Leading	Support	Preparedness	Response		Recovery
					•	•	•	
					•		•	
					•	•	•	
				Ministry	Putting in place enough	 Employ the 	•	Rehabilitation of
				responsible for	security agents to prevent	military to repel the	þ	destroyed facilities.
				National Defense	any kind of insecurity in	attack.	•	Putting up emergency
				and National	every part of the nation.	 Assist in effective 	0	operation centre.
				Service	• Ensuring public co-	control of entry	•	Security
					operation with the	points.	O	coordination.
					security agents on any	 Armed escort to 	•	Control and
					terrorist sighted.	convoys.	၁	coordination of
					 Putting in place good 	• Surveillance of our	0.0	government agents,
					communication network.	international	<u> </u>	VIPs and diplomatic.
					 Creation of security 	borders.	•	Movement and
					committees at district and	• Cordon and search.	Ö	control of displaced
					Wards to constantly	• Road blocks.	Ь	persons, patients
					monitor and act on any	• Armed patrols.	Š	stranglers etc.
					element of insecurity.	• Crowd dispersal.	<u>П</u>	Effective manning of
					 Creating cohesive 	Raids/Anti	œ	gates, check points
					security agents - military,	terrorists Operations.	o	etc.
					Police, intelligence,	•	<u>ш</u>	Effective broadcasts
					leaders		ţ	to inform all about
							t]	the disaster and
							e	education of the
					and public.		put	public on the damage
					 Putting in place the 		and	and involved casualties.
					logistic backup for			
					security Operations.			
					 Monitoring external 			
					hostile agents and putting			
					in place adequate security			
					measures.			
					Safeguarding major			

S/No.	Hazards	Prone	7	Agency		Activity	
		areas					
			Leading	Support	Preparedness	Response	Recovery
					economic installations.		
				Ministry	Operationalisation of	Negotiation	Diplomatic Dialogues
				responsible for	National Foreign Policy		
				Foreign Affairs			
				and International			
				Ministries	Provision and maintenance of	Restoration of	Restoration of
				responsible for	lifelines	lifelines	lifelines
				Water & Works			
				Ministry	Emergency and disaster	 Deployment of 	 Provide psychosocial
				responsible for	management training for	mobile health	services
				Health and Social	health personnel	facilities	• Scale up
				Welfare	Preparation of	 Handling of mass 	comprehensive health
					contingency Plan	casualties	service delivery
					Preparation of	Provision of	Public education
					equipments and supplies	essential health	 Reconstruct critical
					 Prepare for managing 	services as per	health facilities
					mass causality	SPHERE standards	
					 Training of health staffs 	 Disseminate critical 	
					and arrangements for	public information	
					space		
					 Awareness raising 		
					Assessment of Nutrition		
					status		
					Stocking up emergency		
					medicine,		
					equipment and		
					supplies		
				CSOs/Internation	Capacity Building	 Rapid assessment 	Relief supplies
				al Humanitarian		 Search and rescue 	
				organizations		 Relief supplies 	

	Recovery		Restoration of	Doctorotion of	Kestoration of	litelines			 Awareness 	 Debriefing 	 Evaluation 					 Law enforcement 	 Improve preventive 	services		Public education		 Support animal 	husbandry restoration initiatives
Activity	Response		Friendly posture	disposition to reserving	• Search and Kescue	 Handling of Mass 	casualty	 Materiel support to fighting echelons 	 Treat and contain 	spread of disease	 Information 	management	 Law enforcement 			Law enforcement				Public information		 Moral and Material 	Support
	Preparedness		Maintenance of Security	Consciousificas and awareness	• Capacity building	 Awareness creation 			 Preventive measures 	 Stockpiling of medics 	 Contingency plan 	 Vaccination 	 Law enforcement 			 Awareness and public 	campaigns	 Good animal husbandry 	 Preventive measures 	Good linkages with lead	Ministry & Community	 Good animal husbandry 	 Public awareness
Agency	Support		Community	Division Conton	Frivate Sector											PMO-RALG				Media/ministry	responsible for Information	CSOs	
7	Leading								Ministry	responsible	for	Livestock											
Prone									• Dodom	а	• Singida	Shinya	nga	Mwanz	a • Arusha								
Hazards									ANIMAL	DISEASE	S												
S/No.									19.														

S/No.	Hazards	Prone	Ą	Agency		Activity			
		areas							1
			Leading	Support	Preparedness	Response	,	Recovery	
				Community/	Training on Identification	 Animal Keeping) gnic	• Restoration of animal	
				PMO-RALG	of disease symptoms and	Management		husbandry	
			1		good animal husbandry				- 1
				Private Sector	 Stock piling of medics 	 Expertise and 		 Support Animal 	
						Material Support	port	Husbandry	
								• Restoration Initiatives	
				UN/International	Technical, material and	 Technical, material 	naterial	Monitoring and	1
				Agencies	financial support	and Financial		Evaluation	
						Support			
20.	MARINE	Territorial	Ministry		 Preventive measures 	 Provide situation 		 Debriefing 	
	OIL	Inland and	responsible		 Policy development 	reports		Monitoring and	
	SPILLS	Coastal	for		 Law enforcement 	Supervision of oil	of oil	Evaluation	
		Waters	Transport		 Oil spill awareness 	spill control,			
					campaigns	containment and	and		
						cleanup			
				SUMATRA	 Preventive measures 	 Law enforcement 	ment		
					 Undertake Ship 	 Search and rescue 	escne		
					inspection	 Assessment and 	and		
					 Coordinate training and 	monitoring			
					drills	 Order appropriate 	priate		
					 Maintain the Marine 	measures for oil	lio .		
					Rescue Coordination	spill control,			
					Centre	containment,			
					 Collect and monitor 	cleanup and			
					information on oil and	recovery			
					hazardous pollution at the	 Communicate the 	e the		
					international level	incident to relevant	elevant		
						stakeholders			
						 Collect 			
									1

S/No.	Hazards	Prone	7	Agency		Activity	
		areas	;		1	1	1
			Leading	Support	Preparedness	Response	Recovery
						 information on the 	
						scope and impact	
						of a pollution	
						incident	
				PMO/Disaster	 Develop national 	 Coordinate 	 Debriefing
				Management	guidelines and response	response	Monitoring and
				Agency	plans	operations at the	Evaluation
					 Undertake training and 	national level	Restoration of
					drills	Provide	livelihood of
					 Public education 	Emergency public	victims
					 Capacity building 	information	
							;
				VPO/NEMC	 Identify pollution 	 Provide expertise 	
					hotspots along the	on clean up	monitoring and
					coastline	operations	an evaluation
					 Identify locations for 	Determine the	programme after
					temporary and final	degree of pollution	the cleanup
					disposal of oil wastes	and extent of	
					Develop oils spill drift	environmental	operation,
					model for Tanzania	degradation	• Propose and
					waters		supervise
							mitigation
							restoration
							measures
							restoration plans
							and costs
				Ministry	 Conduct training and 	Search and rescue	Public education
				responsible for	drills	Provide emergency	
				Health and Social		health care	
				Weltare			

	Recovery	Supervision of	restoration of	livelihood of victims				Monitoring and	evaluation of oil	facilities				Monitoring and	Evaluation					Debriefing	Monitoring and	Evaluation						
		•	_					•	•	_				•						•	•							
Activity	Response	Identification of oil	spill victims					Monitoring and	evaluation of oil	facilities			Search and rescue	Evacuation	Oil spill control,	containment,	cleanup and	recovery	Repair the facility	Search and rescue	Evacuation	Enforce temporary	exclusion zones	Coordinate supply	of resources	Aid in control,	containment and	• • • •
		•	_					•					•	•	•				•	•	•	•		•		•		
	Preparedness	 Oil spill awareness 	campaigns at regional and	district level				• Prepare guidelines for	internal emergency	response for oil facilities	Monitoring and	evaluation of oil facilities	 Capacity building 	 Training and drills 	 Prepare response 	contingency plans				 Provide protection for 	Tanzanian waters	 Undertake training and 	drills	 Report sightings of oil 	spill			
Agency	Support	Ministry	responsible for	Local	Government and	Regional	Administration	EWURA					Private Sector/Oil	Facility Owners						Ministry	Responsible for	Defense (Navy	Command)					
7	Leading																											
Prone areas		_																										
Hazards																												
S/No.																												

Hazards Prone areas		•		Agency	ď	Act	Activity		£	
Leading				Support	Preparedness	¥	Kesponse		Recovery	
Ministry	Minis	Minis	Minis	stry	Maintain law and order,	• Searc	Search and rescue	•	Conduct	
respon	lesbon	respon	respon	responsible for	safety and security	• Provi	Provide vessels and		investigations	
Home	Home	Home	Home	Home Affairs		manp	manpower for	•	Undertake court	urt
						respo	response operations		proceedings	
						• Estab	Establish cordons	•	Law enforcement	
E	E	E	E		Ţ	as ab	as appropriate		;	
Tanzar	Tanzar	Tanzar	Tanzar	I anzania Ports	 Formulate emergency 	• Provi	Provide equipment	•		,
Authority	Author	Author	Author	ıty	response plans for ports	and	and manpower for	•		and
					 Equipment and personnel 	respo	response operations		Evaluation	
					mobilization	Cordon	uc			
					 Organize training and drills 					
Fire an	Fire an	Fire an	Fire an	Fire and Rescue	 Training and Drills 	• Searc	Search and rescue			
Force	Force	Force	Force			(whe	(where appropriate)			
UN/In	UN/In	UN/In	UN/In	UN/International	 Technical, material and 	• Tech	Technical, material	•	Monitoring and	
Agencies	Agenci	Agenci	Agenci	es	financial support for	and F	and Financial		Evaluation	
					preparedness	Supp respo	Support for response activities			
Other I	Other I	Other I	Other 1	Other Ministries,	 Duties and 	•		•		
Agencies and	Agenci	Agenci	Agenci	es and	Responsibilities as					
Organizations	Organi	Organi	Organi	zations	outlines in the National					
					Marine Oil Spill					
					Response Contingency					
					Plan					