

KENYA RED CROSS SOCIETY

VULNERABILITY CAPACITY ASSESSMENT

CONDUCTED IN LUNGA LUNGA INFORMAL SETTLEMENTS OF NAIROBI

URBAN DISASTER RISK REDUCTION PROJECT

2014

Table of Contents

Cover Page	
Table of content	il
List of Tables	iv
Abbreviations	v
Introduction	2
Executive Summary	2
National Society Mandate	3
Brief Background of IFRC	3
Purpose of VCA activity in Lunga Lunga	4
Organization and methodology	4
(a)Survey Area and Methodology	4
(b)Sample Size and Data Connection	4
(b)VCA tools Utilized	5
(i) Focus Group Discussion	5
(ii)Transect Walk	5
(iii) Mapping	6
(iv)Venn diagram	6
(v) Seasonal Calendar	8
(vi) Historical Trend	9
(vii)Wealth Ranking	11
(viii) Livelihood and Coping Strategy	11
(ix)Pair wise Ranking	12
(d)Volunteer selection and training	12
(e)Data Analysis	12

Summary of VCA implementation	15
(i)Lessons Learned	15
(ii)Challenges	15
(iii) Major findings of the study	
Action Plan	15
Transforming Vulnerability into capabilities	19
Action for transformation	2 3
Timeline	24
Annex	30

List of Tables

Table 1.0: A Table representing capacities and functions.	7
Table 2.0: A table showing historical trends	9
Table 3.0: A table representing the different wealth Clusters in the Community	11
Table 4.0: A table representing way of Livelihood and coping strategy	12
Table 5.0: A table representing the different wealth Clusters in the Community	14
Table: 6.0: A table showing the hazards and Vulnerabilities	17
Table: 7.0: A table representing the organization and its function in order of importance	18
Table: 8.0: Transforming Vulnerability into Capacities	19
Table 9.0: Action for transformation	23
Table 10: Time line	25-27

Abbreviations

VCA.....Vulnerability capacity Assessment

IFRC......International Federation of Red cross/Red Crescent

FGD.....Focus Group Discussion

VSL.....Volunteer Savings and Loans

MSDP..... Mukuru slums development Promotions

APHRC.....African population Health research Centre

A.P....Administration Police

KRCS.....Kenya Red cross society



Lunga lunga residents (CBDRTs) together with the Kenya Red Cross Nairobi Branch Volunteers

VULNERABILITY CAPACITY ASSESMENT CONDUCTED AT LUNGA LUNGA

Introduction

VCA is expected to provide: - Baseline assessment information that can become the entry point to an emergency needs assessment following disaster. Community understanding of its own environment in relation to known risks and hazards. Community realization of its own capacities to cope with the risks and hazards. Community and local authority agreement on actions needed to prevent or reduce the effects of risks. Relevant projects in prevention, preparedness and risk reduction.

It is a participatory methodology of analyzing the vulnerabilities, hazards and capacities to have a resilient community to disaster.

This publication provides the conceptual framework for a Vulnerability and Capacity Assessment. A VCA disaster risk assessment method concerns the structured and meaningful collection, analysis and systematization of information on a given community's vulnerability to hazards.

Lungalunga is an informal settlement situated in Makadara constituency, approximately 2.5 square kilometer from the city Centre the population of the area is approximately with 30000 persons. It is a densely populated area.

Executive summary

Red Cross Red Crescent National Societies are increasingly working alongside vulnerable communities, seeking to address the underlying causes of their problems.

This shift from our more 'traditional role' as service providers has required a new set of ideas, attitudes, methods and tools in order to meet our objectives in working together with people in need.

Vulnerability and capacity assessment (VCA) was developed to enable National Societies to help communities understand the hazards that affect them and take appropriate measures to mini- mize their potential impact. These measures are based on com- munities own skills, knowledge and initiatives – thereby preventing these hazards turning into disasters.

National society mandate

National Red Cross and Red Crescent societies exist in nearly every country in the world. Within their home country, they take on the duties and responsibilities of a national relief society as defined by International Humanitarian Law. Within the Movement, the ICRC is responsible for legally recognizing a relief society as an official national Red Cross or Red Crescent society. The exact rules for recognition are defined in the statutes of the Movement. Article 4 of these statutes contains the "Conditions for recognition of National Societies."

Brief Background of IFRC

The IFRC is funded by statutory contributions from National Societies, the delivery of field services to programme partners, and voluntary contributions from donors such as governments, corporations and individuals. The criteria for the statutory contributions of each National Society are established by the Finance Commission and approved by the General Assembly. Additional funding, especially for unforeseen relief assistance missions, is raised by emergency appeals. As of 2005, the Chairman of the Finance Commission is Mr. Chrystold Chetty (Seychelles) and the Vice- Chair is Ms Katherine Forbes

The IFRC's strength lies in its volunteer network, community-based expertise and independence and neutrality. It works to improve humanitarian standards, as partners in development and in response to disasters. It persuades decision makers to act in the interests of vulnerable people. It works to enable healthy and safe communities, reduce vulnerabilities, strengthen resilience and foster a culture of peace around the world. The seven Fundamental Principles that guide the work of the IFRC and its members are: humanity, impartiality, neutrality, independence, voluntary service, unity and universality.

Purpose of VCA activity in Lunga Lunga

- Provide baseline assessment information that can become the entry point to an emergency need and assessment following disaster.
- Community understanding of its own environment in relation to known risks and hazards.
- Community realization of its own capacities to cope with the risks and hazards. Agreement between community and local authority on actions needed to prevent or reduce the effects of risks.
- Developing relevant projects in prevention, preparedness and risk reduction.

Organization and methodology

a) Survey area, schedule and basic principles

The VCA was carried out at lunga lunga community and covered all the 13 sub villages. The activity took place on 23 January 2014 as from 0900hrs with a brief introduction from members present and thereafter a summary on what is VCA, its importance and tools to be used.

The activity involved 60 participants with an age group of 18-70yrs with 20 volunteers from KRCS Nairobi branch and 40 from lunga lunga community. The first tool used was FGD and it involved all members. After this the facilitator grouped all members into small groups of 7 members considering gender, representation of both the community and KRCS and ensuring each group had a member from the community who has lived there over 10 years to ensure data given is accurate.

b) Sample size and data collection

To ensure effective and efficient collection of information members laid out rules to guide them through the process as; ensure you record every information from the community members as presented, make sure the community members can see the information being recorded, use a language understandable by all,

promised not to share the information with the local authority and giving the community members time to argue out their points.

A sample of 40 persons was selected randomly from lunga lunga community with help from village elders. Each of the 13 sub village was represented by 3 members and one representative from the chief's office.

Data was collected using the 9 VCA tools. Apart from transect walk which used direct observation as a way of collecting data all the other tools involved group discussion

c) VCA tools utilized

In carrying out the VCA 9 tools were found effective and accurate to be used to gather information from an urban setting and included;

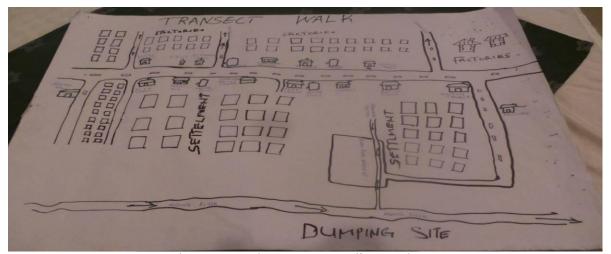
i. Focus group discussion: Parties participated in a form of a group and discussed on certain issues/topics. In FGD the group was divided into two groups separating the male from the female for a free discussion without fear of each other.



Participants during an FGD

ii. Transect walk: A walk was conducted through the area following a specific route to map out vulnerabilities, hazards and capacities. During the transect walk the group observed churches, schools, water point, public toilets, medical clinic, daycare, pubs and security office as the

available capacities. Various hazards were observed like dumping sites. Factories were also categorized as both hazard and capacity, they offer employment opportunities and drain their waste through open drainages and end up polluting the environment. The maps extract below shows the route followed during the transect walk;



Map showing major hazards (Dumping site) and capacities (factories) observed during the transect walk

iii. Mapping: Mapping as a tool was used to show the geographical area of the community. It identifies capacities, vulnerabilities and hazards.

Capacity Map



Vulnarability Map



iv. Venn diagram: The tool was used to identify and capture capacities in Lunga Lunga community in relation to their importance and their proximity to this community. According to the Venn diagram, the community identified 13 institutions that work in their community. The order of functions provided by the different capacities was as follows; Education, health services, research, security, shelter and food water, provision of clean toilets, relief food, formation of self-help groups, response in times of disasters, support of self-help groups, mentoring orphans, provision of loans and finally sensitization on family planning methods. The following table shows a summary of the institutions and their role in the community;

Table 1.0: A Table representing capacities and functions

	CAPACITIES	FUNCTIONS	
1	School	Education	
2	Health Centre	health services	
3	APHRC	research	

4	Police	security
5	Church	shelter and food water
6	Nairobi water	clean toilets
7	Lunga lunga Youth Group	relief food
8	Feed the children	relief food
9	MSDP	formation of self-help groups
10	KRCS	response in times of disasters
11	Aphia plus	support of self-help groups
12	Hope world wide	mentoring orphans
13	VSL	provision of loans
14	Jipange	sensitization on family planning methods

Below photo shows institutions in this community; their importance in terms of size and proximity



v. Seasonal calendar: The assessment team used a seasonal calendar to show the occurrence of different hazards in the community throughout the year. The community identified 11 hazards that occurred in the year 2013. Insecurity, drugs, disease outbreak, water shortage and gender based violence were the most frequent since they occurred in each month of the year. Despite fire occurring at least 7 times in a year, it was ranked as the major hazard since it takes them a long time to recover. The following chart shows different hazards experienced in any particular year;

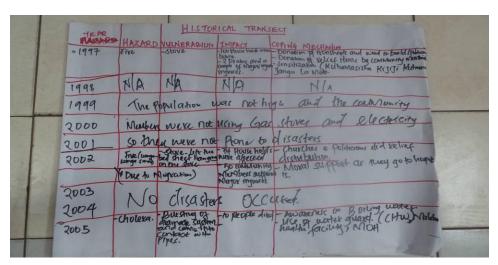
	HAZAROS	J	la F	B Mar	Apr	May	June J	LEY A	49 SOP	Oce		1			
	FIRE						XX .	_ ×	××						- /
	FL000				XXX				_ -		1xx			-\	11
	DRUG ABUSE	××	××	××	xx	×× ;	XX X	<× ×	x x	x xx	xx		××		
	DISEASE OUT BRE	AK X	X	XX	×	×	×××	< × >	5 20	×		1	××		
	ZARLY PREGNA	- C	-	××	XXX	×			CXX -		- 12.	The same of	XXX		1
	DAPE	XX	+						××	3×× ×		<x< th=""><th>_</th><th></th><th>1000</th></x<>	_		1000
	none CANITATION) —	1-	X	XX	-		_	-	×	×	K)K	XX	~	
	- TITION	XXX	X	-	-	-			-	×	×	XX			
	CHORT MUE	700	7	××	XX	XX	XX	××	XX	XXX	××	××	1~		
	11.1		_		-	-				-	-	XX	1		
1 7	HIY EVIDÊBASED VIOLEN	×	×	X	XXX	×	×	×	XX	×	×	X	1,	×	
	ECURITY)	××	×	×	×	×	×	×	×	×	×	×	× \	XXX	

vi. Historical trend: The tool was used to capture the history of major hazards that occur in the community on yearly basis. The community identified floods, diseases and fire as the major hazards and their copying mechanisms as shown below;

Table 2.0: A table showing historical trends

YEAR	HAZARD	VULNERABILITY	IMPACT	COPING MECHANISM
1997	Fire	stove	100 Houses burnt,2 deaths and a couple of major injuries	Sensitization campaigns from different organization, Donation of iron sheets and timber
2002	Fire	Stove	74 household burnt	Received relief from churches and politicians.

2005	Cholera	Water contamination	10 people died	Distribution of water guards, sensitization campaigns from MOH
2010	Floods	Flash flood from Ngong river, drainage blockage, Living along river bunks.	Malaria outbreak, displacement	Community members camped in schools, Rebuilding and relocation to higher grounds.
2011	Fire	Oil siphoning and illegal electrical connections	54 people died,200 major injuries	Donation from churches and well-wishers, Relocation, Sensitization campaigns, Red cross assisted members to retrieve bodies.
2012	Floods	Flash flood from Ngong, Drainage blockage	Displacements,2 people drowned, Property destruction	Moving to higher grounds and Donation and relief
2013	Floods	Flash flood from Ngong, Drainage blockage	Displacements,2 people drowned, Property destruction	Moving to higher grounds and Donation and relief



Extract of the historical trend during the assessment shown below;

vii. Wealth ranking: The tool was used to identify the resources that the community/individual has and ranks them from the highest to the lowest. The community identified 5 ranks; very rich, rich, moderately rich, rich and poor.

The very rich are matatu owners (Public service vehicles) and earn approximately Kenyan shillings 2, 000-10,000 per day (USD 23 – 116). The rich are characterized as land owners, private school owners and earn 200,000 in a month. Those ranked as poor are mostly casual workers and earn KSH 4,000 (USD 46) in a month.

Table 3: A table representing the different wealth clusters in the community

Wealth Ranking	Measurement	Earning per Month
Very rich	Matatu owners	300,000
Rich	First settlers in the community i.e own land	200,000
Moderately rich	Land lords	45,000
Poor	Casual workers	4,000

viii. Livelihood and coping strategy: The tool was used to find out the major hazards in the community, coping mechanism and the missing links as captured below;

Table 4.0: A table representing way of Livelihood and coping strategy

HAZARD	VULNERABILITY	MISSING LINKS
Insecurity	Lack of jobs	Unemployment
	Corrupt administration	Ineffective administration
	Poor housing structures	Corrupt police force
	Easy access to fire arms	
Fire	Illegal electricity connections	Inadequate skills
	Domestic Violence,	Inappropriate and
	Ignorance	Inadequate tools
	Poor storage of flammable	Inaccessibility
	substances	
	Oil siphoning	
Floods	Poor drainage systems	Drainage not concrete
	Settlement along river banks	Houses not gutters
	Blocked drainage system	Unestablished drainage
		system
Eviction threats and Demolitions	Lack of land ownership	Illiteracy
		Inappropriate
		administration

ix. Pair wise ranking: The tool was used to identify different hazards in this community and an analysis was done to examine the rampant ones as illustrated below;



d) Volunteer selection and training

30 people including staff and volunteers of KRCS Nairobi branch participated in a two day VCA training ahead of the actual assessment. The training covered objectives of VCA, tools used, formulating questions to use in tools, ways and methods of transforming vulnerability into capacities and selection of tools.

e) Data Analysis

The data collected from the different tools is analyzed and presented as shown below

Pie chart: 1.0

A pie chart representing hazards and the frequency of occurrence in Lungalunga

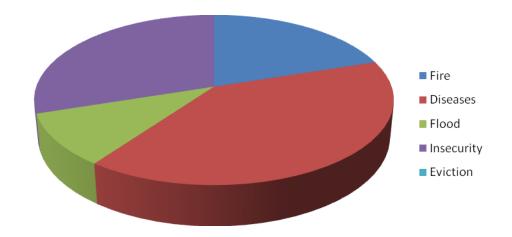
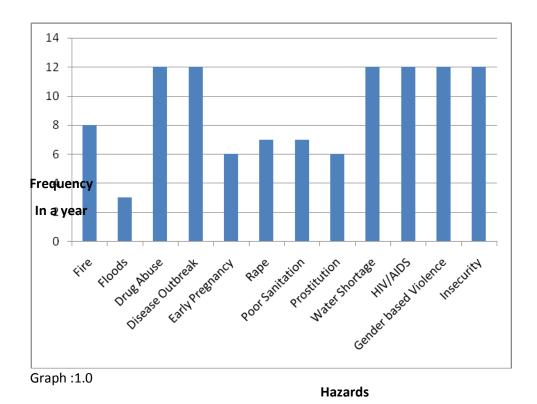


Table 5.0: A table representing the different wealth Clusters in the Community

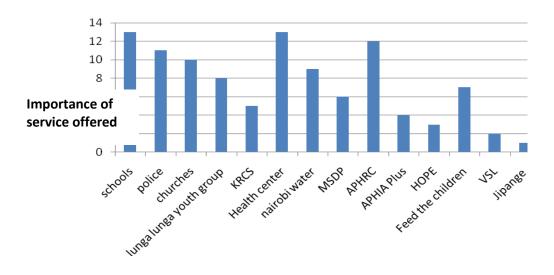
Wealth Ranking	Measurement	Earning per Month
Very rich	Matatu owners	300,000
Rich	First settlers in the community i.e own land	200,000
Moderately rich	Land lords	45,000
Poor	Casual workers	4,000

N.B The poor are the greatest population in the area

A graph representing the hazards and their frequency during year 2013



Graph 2; A graph showing the different institutions and the importance of their functions to the Lunga lunga community;



Institution 15

Summary of VCA implementation process in Nairobi city (Lunga Lunga)

i. Lessons learned

In Implementing VCA, the group learned that:

- By using VCA it is easier for people living in informal settlement to give you information they would
 rather not have given if you were using other methods of collecting data. This is because VCA has
 a way of digging sensitive information without asking direct questions that would raise suspicion.
- VCA gives a detailed scope of the living conditions of the community members from legal to illegal activities; socially, economically, politically and historically
- In urban setting FGD is more effective since most people are more informed and willing to talk openly.

ii. Challenges

- Informal settlement has a big and very diverse population making it very difficult to get an actual sample that would represent the whole community and its diversities.
- It was a challenge to draw a map showing capacities since the settlement pattern is not definite.

Major findings of the study

A) General living condition

From the VCA it is clear that the general living condition of the people in Lunga lunga is poor. This is attributed to the number of vulnerabilities and inability to cope.

b) Hazards, risk and vulnerabilities Identified

From the VCA findings, lunga lunga community identified several hazards and their causes which are: Fire, Insecurity, Drug and substance abuse, Floods, Poor drainage system, Eviction threats, early pregnancy, prostitution and water shortage as shown in the table below.

Table: 6.0 A table showing the hazards and vulnerabilities

HAZARD	VULNERABILITY
Insecurity	Lack of jobs
	Corrupt administration
	Poor housing structures
	Easy access to fire arms
Fire	Illegal electricity connections
	Domestic Violence, Ignorance
	Poor storage of flammable substances
	Oil siphoning
Drug and substance abuse	Peer pressure
	Availability/Easy accessibility of drug
	Poor parenting
Floods	Poor drainage systems
	Settlement along river banks
	Blocked drainage system
Diseases	Floods, Water contamination
	Poor sanitation, Prostitution
	Rape, Unprotected sex
Poor Drainage system	Dumping on drainage tunnels
Eviction threats	Lack of land ownership
Water shortage	Over population
Early Pregnancy	Illiteracy
	Rape
	Poverty
Gender based violence	Illiteracy
	Discrimination against women

C) Capacities

I) Individual & community capacity

Most capacities in the community are owned communally. These are public schools, churches, hospital, clean water and Electricity among others.

There are other resources owned by individuals like Houses, Toilets, Clean water taps, shops, Biogas and to get access to them one has to pay.

||) Institutional Capacity

The community identified 13 institutions and ranked them according to the importance of the service they provide and their availability in the community as shown below.

Table 7: A table representing the organization and its function in order of importance

Name of organization	FUNCTION						
school	Provide Education						
Health centers	Provide treatment, nutrition, free immunization maternity services						
African Population health research centre	Create employment, conduct research						
Police/local Administration	Provide security						
Churches(lunga lunga catholic)	Provide spiritual support and in times of disaster it provides food, shelter and clothing						
Nairobi Water	Provide clean water, manage sewage lines						
Lunga lunga youth group	Conduct clean ups, own public toilets and produce biogas						
Feed the children	Provide relief food in schools						

Kenya red cross society	Carry out rescue activities in case of disasters					
APHIA Plus	Create support groups and help them sustain themselves					
HOPE	Support orphans, carry out VCT					
Volunteer saving &loans	Saving scheme					

d) Priority area and recommendation

From the information collected disease is the most rampant in the community. Most diseases are due to poor hygiene and sanitation so the assessment team recommended for PHAST training, clean ups to unblock drainages and more toilets be built up.

ACTION Plan

Table 9

1. <u>Transforming Vulnerability into Capacities</u>

Working with community representatives, the assessment team came up with actions to transform vulnerabilities into capacities as shown below.

HAZARD	VULNERABILITY	ACTION
Insecurity	Lack of jobs	Introduction of IGAs
	Ineffective administration	Holding chief barasa
	Poor housing /settlement structures Drug Abuse Inaccessibility Poor cooperation amidst members Corruption Peer pressure	Community empowerment Community policing Slum upgrading Advocacy Peer education
	Threats Illegal fire arms/gangs	Sensitization
Fire	Illegal electrical connections Domestic violence Ignorance Illegal storage of flammables Poor infrastructure	Sensitization Reduced electricity bills Transparency Introduction of IGAs Slum upgrading

Drug and	Financial constrains	Introduction of IGAs			
substance abuse	Peer pressure	Sensitization			
	Easy accessibility to drugs	Peer education			
	Poor parenting	Advocacy			
	Child abuse	Rehabilitation			
Floods	Poor drainage systems	Cement the drainage			
	Silting of the rivers	systems			
	Settlement along the river banks	Sensitization			
	Block drainage systems	Unblocking the			
		drainage systems			
Diseases	Floods	Sensitization			
(Diarrhea,	Water contamination	PHAST			
malaria, typhoid HIV	Poor hygiene and sanitation	Introduction of IGAs			
&AIDS	Prostitution	Community			
Tuberculosis.	Rape	empowerment			
	Unprotected sex with infected	Condom distribution			
	persons				
Poor drainage	Dumping on the drainage systems	Sensitization			
systems	Dumping on the drainage systems	Scholization			
Eviction threats	Lack of land ownership	Civil education			

		Sensitization
Water shortage	High population	Water storage harvesting
		Sensitization
Inadequate sanitation	Lack of enough space to build	Sensitization
facilities	sanitary facilities.	
Early pregnancy	Illiteracy	Peer education
	Drug abuse	
	Rape	
	Child abuse	

2. Action for transformation

ACTION	PREVENTION			PREPAREDNESS			MITIGATION		
	Change	Influe nce	Transformati on	Change	Influence	Transformation	Change	Influence	Transformati on
Introduction of income generating activities									*
Holding chief Barazas					*				
Community empowerment						*			
Upgrading slums									*
Advocacy					*				
Peer education		*							
Sensitization		*							
Rehabilitation									*
Concrete drainage system									*
Unblocking sewerages systems	*								
Participatory hygiene and sanitation transformation			*						
Condom Distribution		*							
Civil education							*		
Water storage and						*			
harvesting									

Table 9.0: Action for transformation

Table:3.0.2

3.Time Line

ACTION	Q1	Q2	Q3	Q4	VERIFIABLE	RESPONSIBILITY
					INDICATORS	
Income Generation Activities introduction			*		 Copies of Report Photographs taken Material quotations Financial Documents 	 Kenya Red Cross Society Urban Disaster Risk Reduction Team Community Members
Chief's Barazas	*	*	*	*	 Photographs taken Copies of Reports Participants list Program Schedule Permission letters 	 Kenya Red Cross Society Urban Disaster Risk Reduction Team Stakeholders Community Members
Community empowerment		*	*	*	 Number of trainings conducted Reports Photographs 	Local administrationKenya Red

				taken • Participant list	Cross Society Urban Disaster Risk Reduction Team Stakeholders Community
Slum upgrading			*	 Letters from the relevant organizations Housing plan Photographs Reports Participant list 	Members Local Administration County Governance Landlords and Ladies Community members Kenya Red Cross Society Urban Disaster Risk Reduction Team
Advocacy	*	*	*	 Reports Photographs Participant list Letters to stakeholders Copy of the policy 	 Ministry of internal security National Authority for Campaign against Alcohol and Drug Abuse Ministry of

						Health
						 Kenya Power
						and Lighting
						Company
						• Kenya Red
						Cross Society
						Urban Risk
						Reduction Team
Peer	*	*	*	*	Community	• Kenya Red
Education					participant list	Cross Society
Eddodion					Letters to	Urban Risk
					Local Non-	Reduction Team
					Governmental	Local Non-
					Organization's	Governmental
					Reports	Organization's
					Photographs	Local
					Financial	Administration
					Documents	
Sensitization	*	*	*	*	Financial	Kenya Red
					Documents	Cross Society
					 Reports 	Urban Risk
					 Photographs 	Reduction Team
					Participant list	 Community
					• Letters to	members
					responsible	 Local
					stakeholders	Administration
					• Letters of	
					_55.0	

					invitation	
Rehabilitation		*	*	*	Participant list	• Local
					• List of	administration
					rehabilitation	• Kenya Red
					organization	Cross Society
					 Photographs 	Urban Disaster
					• Letters to	Risk Reduction
					organizations	Team
					Financial	Relevant
					documents	
						Stakeholders
						Community
			*		-	Members
Concrete			Î		 Photographs 	• County
Drainage					Financial	Government
System					documents	• Kenya Red
					Reports	Cross Society
					 Quotations 	Urban Disaster
					• Letters to	Risk Reduction
					county	Team
					government	 Community
						Members
Unblocking	*	*	*	*	Photographs	Local
sewerage					Financial	governance
systems					documents	Kenya Red
					Participant list	Cross Society
					• Letters to	Urban Disaster
					county	Risk Reduction
					government	Team
					g::::::::	20

Participatory	*	*	*	*	Participatory	 Community Members County governance
Participatory Hygiene and Sanitation Transformatio n				•	 Participatory Hygiene and Sanitation Transformation (PHAST) tools Photographs Financial documents Participant list 	 Community Health Workers Local administration Kenya Red Cross Society Urban Disaster Risk Reduction Team Community Members
Condom Distribution	*	*	*	*	 Photographs Financial documents Reports Number of health talk conducted 	 Kenya Red Cross Society Urban Disaster Risk Reduction Team Community Health Workers
Civil Education			*		 Photographs Financial documents Reports Participant list Letters to 	 Kenya Red Cross Society Urban Disaster Risk Reduction Team

					relevant	•	Community
					organizations		Members
Water Storage	*	*	*	*	 Photographs 	•	Kenya Red
					Financial		Cross Society
					documents		Urban Disaster
					 Reports 		Risk Reduction
					 Quotations 		Team
						•	Community
							Members
						•	County
							Government

ANNEX

KRCS PARTICIPANTS

- 1. Judy Kemunto
- 2. Brenda Alaka
- 3. Ednah Wanjiru
- 4. Stephene Njoroge
- 5. Flora Makena
- 6. Elizabeth Muturi
- 7. Monica Mucheru
- 8. Benson King'oo
- 9. Milicent Akumu
- 10. Nelly Kimani
- 11. Kenrich Nyakundi
- 12. Mike Bosire
- 13. Naomi Njoroge
- 14. Muiruri Mwangi
- 15. Pauline Chepkwony
- 16. Miriam Kabutha
- 17. Boniface Gitonga
- 18. Carolyne Kiamba
- 19. Seith Simiyu