



PROJECT INCEPTION WORKSHOP REPORT BUNDA CLIMATE RESILIENCE AND ADAPTATION PROJECT

Donor: Adaptation Fund (AF)

Implementing Entity: National Environment Management Council (NEMC)

Executing Entity: Bunda District Council

Date of Inception Workshop: 04 march, 2022

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TABLE OF CONTENTS

S/n	Descriptions	Pages
1	Introduction.....	3-4
2	Project Objectives.....	5
3	Implementation arrangement.....	5-6
4	Project Financing.....	6-8
5	Project Sites.....	8-9
6	The inception workshop overview.....	9-10
7	List of Appendices.....	10
8	Annual Work Plan.....	11-16
9	Time Table.....	16-17
10	List of participants.....	17-20

1.0 Introduction

Bunda District Council represents the section of poor rural communities of Mara region in the Lake Victoria Zone of Tanzania, who are already vulnerable to impacts of climate change. Key climate elements like temperature, rainfall and wind speed have been shifting their historical trends and magnitudes over time. As a result, extreme climate and weather driven events such as droughts, prolonged dry periods, erratic rainfall and strong winds are more common across the district nowadays.

The observed climate vagaries coupled with high poverty level have already caused their toll to people, their socio-economic, livelihood and environmental systems. Crop failures, water scarcity and livestock deaths due to drought are already common events in the area. Rainfall seasons and number of rainy days has greatly changed and declined, affecting economic, social, environment and peoples' livelihoods. Communities are experiencing failures of their traditional livelihood systems with no replacement or alternatives. Dependence on fishing is also under threat due to catch decrease. As a result, the Poverty and Human Development Report released in 2005 by the United Republic of Tanzania ranked the district as the poorest with the highest rates of income poverty.

More than half (68%) of the population are living below the basic needs' poverty line. Projected climate change scenarios by the Tanzania Meteorological Agency (2014), show that, the district will experience more temperature increase in future while drought and dry spell periods will intensify. Rainfall pattern in the area is projected to be more unreliable and number of rainy days will be further reduced, while flushing and catastrophic floods will be more pronounced. Many future climate-change impacts are predicted to accelerate multiple challenges across the district, affecting nearly all of the population.

These impacts are expected to include profound changes in water availability, temperature stresses to human, livestock and crops, changes in farming practices, incomes and food security, ecological disruption, and human health related impacts such as changes in disease vectors and rangelands, spatial expansion of malaria and water borne diseases. Hence, it is imperative that robust, technically-sound and multi- disciplinary, integrated concepts need to be developed and sustainably implemented urgently in Bunda District Council, especially focusing on water, agricultural and public health sectors.

Like many other rural setting districts in Tanzania and in the East African region, agriculture (crop cultivation, fishery including aquaculture and livestock) and water sectors in Bunda are important driver for economic growth, poverty alleviation, food security and rural communities' development. The sectors employ more than 80% percent of human population, contribute to approximately 95 percent of district food requirements, and accounts for about more than 80 percent of household's income earnings.

However, high dependence on rain fed subsistence agriculture, degradation of land and forest resources due to poor farming practices, unsustainable charcoal production and fuel wood harvesting, declining fish stock, illegal and primitive fishing practices and livestock grazing aggravate the impacts of climate change on peoples' livelihood systems, amplifying community's vulnerability and limiting their adaptive capacity.

Reversing this situation, improving environmental and life quality of people and achieving sustainable land management is essential to address food insecurity, rural poverty and ultimately enhancing resilience of communities and their adaptive capacity to climate change effects. While some proposals for such interventions already exist in the district plans, their implementation lacks behind.

Therefore, this project proposes to develop and implement concrete adaptation actions at grass root levels to increase community livelihood resilience to climate change effects and cover the following sectors; water resources and supply, agriculture, fisheries and aquaculture, livestock, forestry and ecosystems and gender in relation to climate change. The project will apply transformative integrated environmental management and aquaculture innovations, resilient rural water supply systems and Ever-Green-Agricultural (EVA) practices to reduce vulnerabilities and the impact of climate change on local communities in the district.

This approach offers practical and effective combination of Community-Based-Adaption and Ecosystem-Based-Adaptation techniques to support transformation of livelihood system, combat poverty, enhance greater climate resilience of rural communities and gender equality while reducing emissions through long-term storage of carbon in landscapes. The project will implement concrete and practical cost effective and multi-stakeholders adaptation solutions to improve livelihoods of the poor and vulnerable communities in Bunda District Council.

2. Project Objectives

The project will specifically target the most vulnerable groups who have less resource to adapt to climate change in Bunda and is built on the principles of local empowerment through engagement of vulnerable and grassroots communities such as farmer groups and village governments and community groups. Therefore, the overall objective of this project is to enhance resilience and adaptive capacity to effects of climate change while reduce vulnerability of selected communities in Bunda District.

Specifically, the proposed project will be addressing through the following specific objectives:-

- i) Enhance climate resilience for improved access to rural water supply system in selected drought prone agro-pastoral communities of Bunda District Council.
- ii) Improve agricultural productivity, livelihood and agro-ecosystem resilience through Climate Smart EVA practices.
- iii) Promote paradigm change of small-scale fishers for sustainable income and climate resilient rural livelihood through aquaculture innovations in selected villages of Bunda District Council.
- iv) Improve ecological and environmental services and functions to sustain climate sensitive rural livelihoods in selected rural communities of Bunda District Council.
- v) Strengthening institutional capacity and knowledge management on climate change adaptation.

3. Implementation arrangement

Since submission of the last version of the project document, the implementation arrangements have not changed. However, some minor adjustments have been made on the composition of the Project Steering Committee.

The National Implementing Entity (NIE): The project will be implemented by the National Environment Management Council (NEMC). NEMC has significant experience in Implementing projects and programs of this nature, with dedicated Group/Unit for climate change adaptation and executions of the NIE mandate related to the AF operations in the United Republic of Tanzania.

The Executing Entity: The project will be executed by Bunda District Council (BDC).

The Project Implementation Unit (PIU) comprises of Project Coordinator, M & E officer, Accountant, Procurement Officer, Community Development Officer, Agricultural Officer,

Environmental Management Officer, Forest Management Officer, Water Engineer, Driver and Office secretary.

A Project Steering Committee has been established .The District Executive Director of Bunda District Council is the chair of the committee. The Secretariat of the Committee will be the PIU and members of Project Steering Committee include Chairperson - Chair of the Committee, Project Coordinator – Secretary of the Committee, Regional Environmental Management Officer-Mara, District Agricultural Officer, District Planning Officer, District Community Development Officer, District Livestock Officer, District Fisheries Officer, Representative from Tanzania Forest Services (TFS) and District Manager –Rural Water Supply Authority (RUWASA)

4. PROJECT FINANCING (US\$)

The total budget financing the project activities in 3 years are US\$ 1,400,000.00 as indicated in table 1

Table 1: Total Project Budget

Component	Year 1	Year 2	Year 3	Total
1.Enhancing Climate resilience through water supply system of the drought prone agro-pastoral communities	393,274.00	85,827.00	22,259.00	501,360.00
2. Improving agricultural productivity, livelihood and enhancing agro ecosystem resilience through Climate Smart EVA practice	116,707.13	144,243.79	63,299.52	330,250.00
3: Promoting paradigm shift of small scale fishers for sustainable income and climate resilience livelihood through fish farming innovations in selected villages of Bunda District	99,721.00	32,413.00	17,282.00	143,779.00

4. Improve ecological and environmental services and functions to sustain climate sensitive rural livelihoods in selected rural communities of Bunda District	51,365.00	71,424.00	26,465.00	149,256.00
5. Strengthening institutional capacity and knowledge management on climate change adaptation	15,201.00	14,111.00	17,043.00	48,355.00
6. Project implementation enhanced	60,000.00	30,000.00	30,000.00	120,000.00
Sub Total	736,269.00	341,601.00	215,130.00	1,293,000.00
7. Implementing Entity (NEMC)	50,000.00	30,000.00	27,000.00	107,000.00
Grand total	786,269.00	371,601.00	242,130.00	1,400,000.00

Table 2: First Year Project Components and Financing (US\$)

Components	Outputs	Expected Outcomes	Financing (US\$)
1. Enhancing Climate resilience through water supply system of the drought prone agro-pastoral communities	1.1: Climate resilient rural water supply system established in selected drought prone agro-pastoral communities of Bunda district	Enhanced climate resilient water management and supply system in vulnerable agro-pastoral communities of Bunda District	393,271.84
2. Improving agricultural productivity, livelihood and enhancing agroecosystem resilience through Climate Smart EVA practice	2.1 Climate Smart EVA practices to improve food security through small scale and micro-irrigation schemes enhanced	Improved agricultural productivity, livelihood and agroecosystem resilience through Climate Smart EVA practices in	116,703.13

		selected village communities	
3: Promoting paradigm shift of small scale fishers for sustainable income and climate resilience livelihood through fish farming innovations in selected villages of Bunda District	3.1 Traditional fishing practices transformed for improved climate resilient livelihood and sustainable income generating activities in selected villages of Bunda District	Traditional fishing practices of small-scale fishers transformed and' income improved through climate sensitive aquaculture innovation	99,721.00
4. Improve ecological and environmental services and functions to sustain climate sensitive rural livelihoods in selected rural communities of Bunda District	4.1.Improve ecological and environmental services and functions to sustain climate sensitive rural livelihoods in selected rural communities of Bunda District	Improved ecological and environmental services and functions to sustain climate sensitive rural livelihoods in Bunda District	51,365.00
5.Strengthening institutional capacity and knowledge management on climate change adaptation	5.1.Capacity of the district and communities in Bunda is strengthened to respond to extreme weather events	Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic losses and livelihood failures in Bunda district	15,201.00
6. Project implementation enhanced	6. Project implantation facilitated	Project implementation enhanced	60,000.00
7. NIE Fee			50,000.00
			786,261.97

6. Project sites

The project will implement concrete resilience and adaptation measures in selected communities of Bunda District Council. The priority areas will include sustainable Socio-economic development and environmental management with key activities in the water, agriculture, fishery, livestock, forests and ecosystems management. The project areas cut across various Divisions, Wards and Villages of Bunda District: The project areas are spread across the district among communities with diverse cultures who derive their livelihoods from the environment and are most vulnerable to the effects of climate change. The selected project areas are more vulnerable to climate change effects and have significant water deficit and food shortage status that makes the inhabitants to suffer the most to climate shocks and bad weather events like drought and dry spells. The



Figure 2: Map of Bunda District Council showing project site

7. The inception workshop overview

The inception workshop was conducted on 04 March 2022 in Kibara town (Bunda District Council) whereby a total 62 participants attended. Out of 62 participants, 19 were female and 43 were male.

The workshop was officiated by the District Commissioner. Other leaders from Bunda District Council included Chair of Bunda District Council, Chair of Economic, Construction and Environment Committee of Bunda District Council, Chair of Education, Health and Water Committee of Bunda District Council, Executive Director of Bunda District Council.

The opening speech by the Guest of Honor was preceded by a presentation from District Executive Director, Chairperson of NEMC Board, Director General-NEMC and Project Coordinator-NEMC who provided an overview of the project whereby they both highlighted on the project objectives, expected outputs, budget and annual work plan.

Furthermore, DED introduced the members of Project Steering Committee whose duties include overseeing project implementation, supervise the activities executed by PIU, provide guidance to the project implementation, approve project annual work plans, budgets and reports.

The presentation of Project Consultant who insisted on alignment to project objectives, utilization of financial resources effectively and efficiently as per approved budget and strengthening monitoring and evaluation system of all identified activities and minimizing all risks that can hinder project implementation.

Project Coordinators from Bunda DC and NEMC-NIE presented the topic on adherence to project objectives, work plans and report writing and submission on time to respective authority and insisted PIU team to strengthen supervision of all planned activities.

However NEMC Director General congratulated Bunda DC for developing successful project proposal and urged all stakeholders to be involved in implementing the project effectively while demonstrating value for money for all the interventions.

Other speech was given by Chairperson for Bunda District Council who thanked NEMC, Adaptation Fund and BDC for facilitating the project proposal development, approval and financing and he urged the beneficiaries (communities) to provide a highest level of cooperation to the project during implementation.

8. List of Appendices

The report has been attached with appendices that include Annual Work Plan, Inception workshop timetable and list of participants as indicated in table 3 to table 5.

Table 3: Annual Work Plan

Annual Work Plan						
Component	Activity Code and Description	Quarter 1	Quarter 2	Quarter 3	quarter 4	
1.Inhancing Climate Resilience through water supply of the drought prone Agro-Pastrol Cummunities	1.Extension of water network system for Isanju water source to cover drought prone communities of Namhula-Mumagunga villages					
	2.Extension of water network system for Kasahunga and Isanju water sources to cover drought prone communities of Mwirurma-Mulanda villages					
	Construct water storage tank at Nyamitwebili villge					
	3. Purchasing and installation of water pump at Kasahunga pump house					
	4 Drill boreholes in drought prone villages (Namalebe and Lagata) villages uncovered with water systems from Kasahunga and Iramba surface water sources and Install solar energy driven					

	5 Construct storage tanks and Water Kiosk/Network for the solar power installed boreholes						
	6.Establish and strengthen water governance structures/arrangements (CBWSOs) by considering revenue collection and develop by-laws for regulating effective use of water resources and protection of rural water infrastructures						
	6 Train selected members from Water Users on operation and maintenance of their climate resilient rural water supply schemes to						
2.Improving agricultural productivity and livelihood and enhancing Agro-Ecosystem resilience through climate Smart EVA practices	1 Construct and establish drip irrigation structures/facilities Poly/sim tanks, PVCs, solar pumps and net houses) for intensified horticultural crops and relevant food crops at Mchingondo (Buguma) and Mumagunga villages of Bunda District Council						
	2 Construct and establish irrigation structures/facilities of (water tank, PVCs, canals, motorized pump, and electrical transformer) for enhanced field crop (paddy) production at Mchigondo (Buguma) village of Bunda District Council.						

	<p>3 Facilitate increased use of EVA practices, drought tolerant and early maturing crops (Cassava and Sunflower) by farmers from Namhula, Mumagunga, Kasuguti, Mugara, Nyarugoma, Kenkombyo, Chitengule, Namalebe, Buguma and Igundu villages of Bunda District Council.</p>						
	<p>4. Capacity Building to farmers through training programs on good agronomic practices through farmers field schools, Female Farmers Field Schools, Demo plots, Agroforestry of the selected crops (Cassava, sweet potatoes, paddy, sunflower, horticultural crops, agroforestry crops), operations and maintenance of the constructed/installed irrigation facilities, crop post-harvest management practices and value addition.</p>						
	<p>5.Facilitate improved local chicken keeping practices for Neruma, Mumagunga, Chingulubhila and Namhura Villages as potential enterprises to generate income and building resilience for the poor households and women groups</p>						
<p>3.Promoting paradigm shift of small scale fishers for sustainable income and climate resilience livelihood through fish farming</p>	<p>1.Construction of 10 earthen ponds sized 20X40 Meters for vulnerable small scale fishing communities (Women and youth groups inclusively) at Buguma and Isanju village</p>						

<p>innovation in selected villages in Bunda District</p>						
	<p>2 Introduction of an effective and efficient fish culture techniques using Tilapia cages by Establishing 10 Cages (Sized 5x5x2.5m. each) for vulnerable small scale fishing communities (Women and Youth groups) at Buguma and Isanju villages</p>					
	<p>3 Procure and introduce 107,000 fingerlings in 10 ponds and 10 cages</p>					
	<p>4 Procurement of 2 wooden outboard engine boats</p>					
	<p>5 Purchase of Feed for prenursery, Nursery, Grow outs/Brooders and Hatchery feeder</p>					
	<p>6 Train community on Fish culture Techniques and fishing skills at Cage sites in Lake Victoria</p>					
	<p>7.Facilitate establishment of one fish hatchery for tilapia species at Buguma village</p>					
	<p>8.Facilitate construction of a two room building for feed preparation for the established fish hatchery, purchase and enable installation of a pelletizer and Feed mixing machine at Buguma village</p>					

	9 Facilitate introduction of modern techniques for improved fish feeds formulation through use of powder and pallets to promote sustainability.						
	10. Provide fish security management in ponds and Cages at Buguma and Isanju villages						
4. Improve ecological and environmental services and functions to sustain climate sensitive rural livelihood in selected communities of Bunda District council.	1. Establish and Implement ecological restoration and rehabilitation plans (hills, mountains and Woodland restored and conserved) in selected wards of Iramba, Neruma, Namhura, Kitengule and Igundu)						
	2 Facilitating campaigns for tree planting competitions by giving prizes and gifts.						
	3 Promote improved ecosystem based income generating activities at Mwiruruma, Isanju, Mumagunga, Kenkombyo, Buguma, Igundu, Namhula, Kasahunga, Sikiro, Nyamitwebili and Namalebe through (a) Improved bee keeping activities in woodland hills and mountainous systems and (b) fruits plants farms						
	4 Facilitate 3 bee houses construction materials and workshops						
	5 Mobilize enclosure systems in degraded ecosystem to promote natural regeneration and recovery of ecological functions and explore the use of local/traditional						

	institutions to strengthen management of sensitive ecological system						
	6 Engage farmers in tree planting on surrounding residential areas along streets and roadsides and degraded landscapes and establish ecological schools (3 secondary and 3 primary schools) and villages (4 villages) in selected wards of Bunda District						
	7 Purchasing of Improved milk production cattle for eco schools and villages and conducting training						
5.Strengthening Institutional Capacity and Knowledge Management on climate change Adaptation	1. Facilitate training to government stakeholders, technical staffs, community groups and civil society in climate risk management and project measures for further scaling up						
	2. Communicate and share knowledge generated through project implementation in Bunda District, National and International communities						
	3 Sharing project results and lessons learned						
	4 Facilitate provisional of project monitoring and evaluation activities						
	Sub total						
6. Execution cost for project implementation	1.To facilitate top-up salaries to project management personnel						

	2.To facilitate office operational					
	3.To facilitate inception and Project Steering Committee meetings					
	4. Facilitate procurement of one vehicle for project monitoring and facilitation of field work					

Table 4: Inception Workshop Time Table

BCRA -PROJECT: INCEPTION WORKSHOP TIME TABLE

DATE: 04/03/2022 KIBARA, (BUNDA DC)

TIME	ACTIVITY	RESPONSIBLE
8:00 – 8:30	Arrival of Participants	ALL
8:30 – 9:00	Registration of Participants	ALL
9:00 – 9:05	Familiarization	Facilitator/ Event Manager
9:05 – 9:50	Remarks	Chair of the Council
	Remarks	P M - Mwibara
	Remarks	DG. NEMC
	Remarks	Chair Board - NEMC
	Welcoming Remarks	DED -Bunda District Council
9:50 -10:10	Opening speech	DC-Bunda
10:10 -10:20	Group Photo	ALL
10:20 -11:00	Tea Break	ALL
11:00 -11: 40	Project Familiarization	Dr. Bwire
11:40 -12: 10	Discussion	ALL/ Facilitator/ Event Manager
12:10 – 12:25	Project Annual Work Plan	Project Coordinator-Bunda DCBalige
12:25-12:40	Discussion	ALL/ Facilitator/ Event Manager
12:40 -13:00	The role of NEMC- NIE for project Implementation	Fredrick Mulinda

13:00 - 13:30	Closing Remark	Chair of the Council -Bunda District Council
	Closing Remark	DED
	Closing Remark	DG -NEMC
	Closing Speech	DC-Bunda
13:30 -14:30	Media Interviews/Lunch and departure	ALL

Table 5: List of Participants

S/N	FULL NAME	INSTITUTION	GENDER	OCCUPATION	ADDRESS
1	Joshua Nassari	Bunda District	M	DC-Bunda	0767225758
2	Salum Mtelela	Bunda District	M	DAS-Bunda	0712680965
3	Thomas Masam	Bunda FM	M	Journalist	0754058148
4	Athuman Sadiki	ITV	M	Journalist	0762372438
5	Pendo Mwakyembe	TBC	F	Journalist	0762402706
6	Lazaro M. Butilikwa	RS- MARA	M	RAO-RS-MARA	0758195559
7	Irene John	NEMC	F	MPRCU-NEMC	0767648636
8	Nyasami Samwel	NEMC	M	Env-Inspector	0789002754
9	Julius Edward	NEMC	M	Env-Officer	0713252625
10	Upendo Sanga	NEMC	F	Economist	062644040
11	Edita Masisi	NEMC	F	MSACC	0715793915
12	Agness M. Elifadhi	NEMC	F	CIA	0754288240
13	Fredrick Mulinda	NEMC	M	Project Coordinator	0753240517
14	Dr. Menan Jangu	NEMC	M	Researcher	
15	Charles Wangwe	NEMC	M	DFA	
16	Prof. Asnati Chaggu	NEMC	F	Chairperson- NEMC	
17	Stephen Ochieng	NEMC	M	V-Instructor	0752514268
18	Masinde Bwire	LVEC	M	Consultant	0715474798

19	Charles Manumbu	Bunda DC	M	Chairperson-BDC	0754752523
20	Keremba I. Keremba	Bunda DC	M	Chairperson-AHIV	0759390265
21	Nyambura N. Nyasonge	Bunda DC	M	Chairperson-ECE	0685070666
22	Ferdson Rwesunga	Bunda DC	M	Chairperson-EHW	0784741768
23	Eng. William Boniphace	RUWASA	M	DM	0759075510
24	Deliqueen A. Lyimo	RS-MARA	F	Ag. ACL	0714505399
25	Kennedy Ogombo	LV-MWANZA	M	ACC/LVB	0712596003
26	Felix A. Mabagala	RUWASA	M	WE	0765651206
27	Changwa Mkwazu	Bunda DC	F	DED	0754821313
28	Kaleja Buyagu	Bunda DC	M	Ag. EO	0752436057
29	Petro S. Sweke	Bunda DC	M	Ag. DLFO	0767979880
30	Noel Shamazugu	Bunda DC	M	DCDO	0784888567
31	Michael Haule	Bunda DC	M	Ag. CLO	0758863149
32	Herry S. Christopher	Bunda DC	M	Ag. DBO	0789025396
33	Rahel B. Ndegeya	TFS-Bunda	F	FA	0752753365
34	Felista C. Masamba	Bunda DC	F	DIA	0713269073
35	Joyce Emmanuel	Bunda DC	F	DPLO	0782332858
36	Moshi Ngombolwa	Bunda DC	M	Ag.DEMO	0766841739
37	Elivaileth Liampawe	Bunda DC	F	Ag. DFSO	0785589597
38	Timothy S. Mwanjala	Bunda DC	M	Ag. DE	0626229568
39	Rahel P. Mdachi	Bunda DC	F	Ag. HPMU	0783989993
40	Mona S. Bitakwate	Bunda DC	F	Ag. DHRO	0767362826
41	Oscar J. Nchemwa	Bunda DC	M	Ag. DAICO	0694119977
42	Romanus Komba	Bunda DC	M	Ag. DT	0621044732

43	Idd Kisika	Bunda DC	M	Cashier	0784721260
44	Jacob Jeconiah	Bunda DC	M	Acct	0673400219
45	Hollo James	Bunda DC	F	DFO	0767760288
46	Pilly Masaza	Bunda DC	F	CC	0758116285
47	Nyambuli Mateko	Bunda DC	F	PS	0767561116
48	Suzana G. Samson	Bunda DC	F	PS	0762279021
49	Marwa P. Kitende	Bunda DC	M	PIU-Member	0784616646
50	Dickson Balige	Bunda DC	M	PIU-Member	0768071391
51	Johanes Bucha	Bunda DC	M	PIU-Member	0717440734
52	Rahel J. Lazaro	Bunda DC	F	PIU-Member	0753341774
53	Stafa Nashon	Bunda DC	M	PIU-Member	0784471448
54	Jastine Mchari	Bunda DC	M	PIU-Member	0753462846
55	Ochieng Dismas	NEMC	M	Driver	0752514268
56	Ipyana Mvungi	NEMC	M	Driver	0715216760
57	Ibrahim M. Ngega	NEMC	M	Driver	0675800548
58	Gosbert S. Pamila	NEMC	M	Driver	0755722400
59	Mtaki Mgonya	Bunda DC	M	Driver	0757642131
60	Donard Masatu	RUWASA	M	Driver	0787329064
61	Alex E. Batromeo	Bunda DC	M	Driver	0756595477
62	Pachal Mrema	Bunda DC	M	Driver	0716649897