



EAST AFRICAN
**CRUDE OIL
PIPELINE**

SOCIAL AND RESETTLEMENT SERVICES FOR THE EAST AFRICAN CRUDE OIL PIPELINE, TANZANIAN SECTION

RESETTLEMENT ACTION PLAN FOR KAGERA REGION

TOTAL EAST AFRICA MIDSTREAM B.V.

JANUARY 2021



RAP Contractors





East African Crude Oil Pipeline

Social and Resettlement Services for the East African Crude Oil Pipeline, Tanzanian Section

Resettlement Action Plan for the Kagera Region

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January 2021



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Project Name:	Social and Resettlement Services for the East African Crude Oil Pipeline, Tanzanian Section
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Versions

Version No.	Revision	Report Date
V1	Draft Final Resettlement Action Plan (RAP) for Pipeline and AGIs in Kagera Region issued to Government of Tanzania (GoT) for comments period.	February 2020
V2	Final Disclosed Resettlement Action Plan (RAP) for Pipeline and AGIs in Kagera Region	September 2020
V3	Disclosed RAP for Pipeline and AGIs in Kagera Region – amendment of Table 6-3	January 2021

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EXECUTIVE SUMMARY

1. INTRODUCTION

The introductory chapter of the Kagera RAP outlines the context, scope and purpose of the document. It lists the partners in the East African Crude Oil Pipeline Project, and the team responsible for planning and producing the Kagera RAP. A list of chapters is provided, to assist readers in navigating the document.

The East African Crude Oil Pipeline (EACOP) (the 'Project') involves the construction and operation of a buried pipeline to transport crude oil from the Lake Albert area in Uganda to the eastern coast of Tanzania. The Tanzanian section of the pipeline is 1,147 km long and will traverse eight (8) regions and the land administered by 27 administrative district councils. This document is the Resettlement Action Plan (RAP) for the 174.58 km long pipeline section crossing the area administered by Missenyi, Bukoba, Muleba and Biharamulo District Councils, in the Kagera Region. The Kagera RAP is one of nine (9) required for the Tanzanian section of the Project.

Three upstream partners hold interests in petroleum resource licenses in Uganda. The Governments of Uganda (GoU) and Tanzania (GoU, GoT), with the upstream partners, wish to construct the pipeline and associated infrastructure. Project development during the initial project planning stage is to be led by the Tanzanian company, Total East Africa Midstream B.V. (TEAM B.V.).

The Project follows the laws of the United Republic of Tanzania, the Project standards as set out in the Inter-Governmental Agreement (IGA) and the requirements of International Financial Institutions (IFI). According to these standards, an overarching Resettlement Policy Framework (RPF) has been developed for the Tanzanian section of the Project, and specific RAPs will be generated for the Priority Areas (PAs) and each of the eight (8) Regions traversed by the pipeline according to the principles set out in the RPF.

Scope and Purpose of the Kagera RAP

The Project will require access to over 9,884 acres, (or 4,000 hectares (ha)) of land in Tanzania including the Kagera Region section of the pipeline. Approximately 90% of the land to be acquired comprises the construction corridor for the pipeline and Above Ground Installations (AGIs). In Muleba District there is Pump Station 3 (PS-3) with its associated access road and temporary worksite, located in Kikagate Village, Mabunda Ward. In addition, two (2) Main Camp and Pipe Yard (MCPY) facilities will be built in Kagera Region as part of the Early Works (EW) activities required to support the construction of the pipeline. These include: MCPY-05 situated near Bulifani Village, in Kyaka Ward of Missenyi District; and MCPY-06 located in Kiguzi Village, Karambi Ward and Muleba District. PS-3 forms part of this Kagera RAP and the two (2) MCPY facilities form part of the Priority Area (PA) RAP.

The overall pipeline route has been designed to minimize environmental and social impacts, but some physical displacement (loss of shelter) and economic displacement (full or partial loss of livelihoods) for communities is unavoidable. Individuals and households are affected in

varying measure by these impacts. In the area addressed by the Kagera RAP, a total of 2,094¹ Project Affected Persons (PAPs), settlements and institutions have been identified, including 1,786 landholders, 277 tenants, 29 villages and one (1) Government Institution.

The Kagera RAP describes the policies, principles, procedures, roles and responsibilities for managing displacement impacts caused by Project-related land acquisition in the Missenyi, Bukoba, Muleba and Biharamulo Districts of the Kagera Region.

The Kagera RAP aims to establish and describe:

- A summary of the legal framework;
- The individuals and households who will experience physical and / or economic displacement, and the communities who will experience impacts associated with the land acquisition process;
- The way that compensation rates for lost assets were determined;
- Eligibility criteria and the entitlements for affected individuals, households and institutions (including in-kind and cash compensation options);
- The process used to identify affected vulnerable individuals and groups;
- Levels of assistance for resettlement of affected households (including vulnerable individuals and groups);
- Measures to reinstate livelihoods of affected persons and households;
- Roles and responsibilities to undertake and implement the RAP;
- The Project's approach to stakeholder engagement and consultation with PAPs and other interested parties, including the Project grievance management mechanism; and
- Activities required to implement, and monitor land acquisition, compensation and livelihood restoration commitments made within this RAP.

The Kagera RAP has been prepared on behalf and with the support of TEAM B.V. for the EACOP Project Tanzanian section by the Digby Wells Consortium (DWC). The consortium comprises Digby Wells Environmental (DWE) and the Tanzanian firms Whiteknights Real Estate Investment Analysts Co. Ltd. (WK), PaulSam Geo-Engineering and Safety Training and Consulting Limited (STCL).

The Kagera RAP has 13 Chapters, each addressing a key component of the resettlement planning process. The sequence of chapters is shown in Figure ES 1-1 below.

¹ This includes five (5) PAPs who have land parcels in multiple villages.

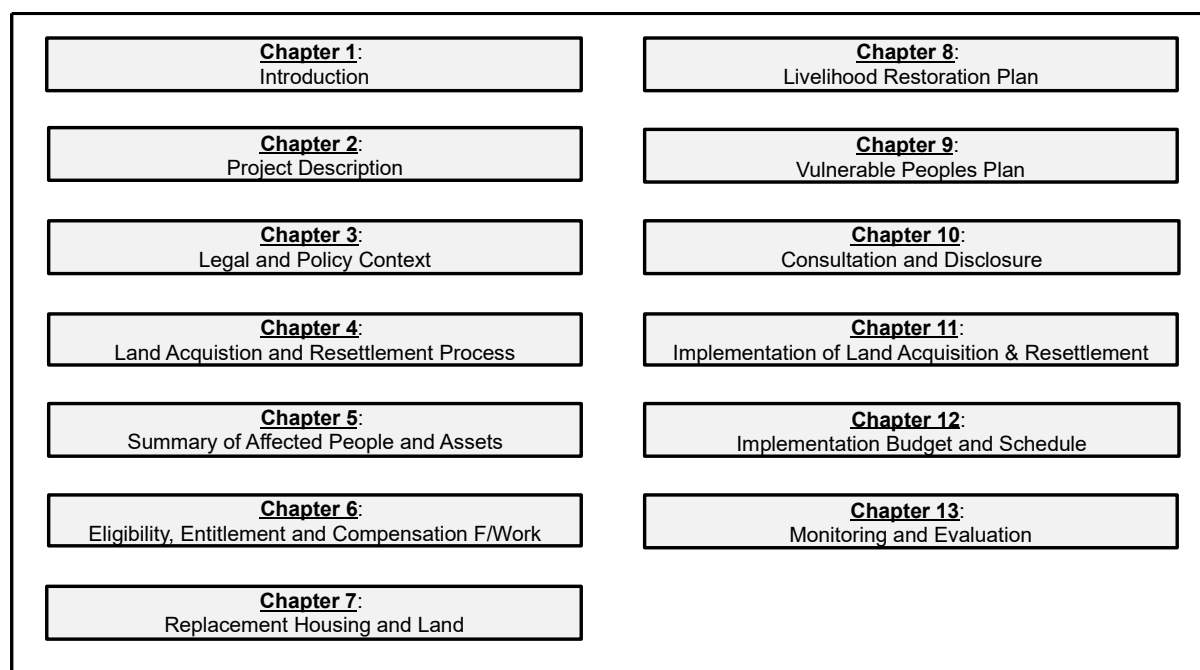


Figure ES 1-1: Kagera RAP Chapters

2. PROJECT DESCRIPTION

Chapter 2 describes the East African Crude Oil Pipeline Project, with a specific focus on the Tanzanian section. For the purposes of the Kagera RAP, the chapter details project elements and associated land requirements in the Kagera Region and the administrative area of the Missenyi, Bukoba, Muleba and Biharamulo Districts.

The Project comprises a 1,443 km pipeline and associated infrastructure to transport crude oil from the Kabaale Pumping Station in the Hoima District of Uganda to an export facility in the Tanga Region of Tanzania. Some 296 km of the 24-inch buried insulated pipeline will be in Uganda and 1,147 km in Tanzania. The major infrastructure includes six (6) pumping stations (2 in Uganda and 4 in Tanzania), two (2) pressure reduction stations in Tanzania and a marine storage terminal (MST). The pipeline will be buried at a depth of 1.8 - 2 meters.

The pipeline is designed to transport 216 000 barrels of crude oil per day (216 Kbpd). Uganda's crude oil is naturally viscous and waxy. For the oil to be transported effectively a temperature above 50°Celsius is required. Electrical Heat Tracing (EHT) installed along the length of the pipeline will ensure that the required temperature is sustained. The EHT will heat the crude oil during commissioning and during periods of reduced flow. The EACOP will be the longest electrically heated pipeline in the world.

The proposed pipeline route alignment is shown in Figure ES 1-2, in which Project affected regions and districts are also highlighted.

Project components in Tanzania include EW facilities which must be established before construction can proceed, and components related to the pipeline and infrastructure itself. The

EW components are addressed in the PA RAP, which has been completed. The pipeline and key infrastructure components include:

- A 30 m wide pipeline construction corridor within which is a permanent 10 m wide corridor is required for the safe operation and maintenance of the pipeline;
- AGIs, including the following in Tanzania: four (4) pumping stations and two (2) pressure reduction stations.
- An MST and a Load-out Facility (LOF) for transfer of crude oil to tankers, and a jetty linking the MST and the LOF.

The land acquisition process that will be completed for the facilities and the remainder of the Project has been the subject of discussion between the Project and the Government of Tanzania. Following engagements with the Government and review of the Tanzanian land tenure and legal framework, the 30 m corridor and AGI land will be acquired permanently. It is the intention that all Project-required land will be transferred to General Land².

The land required for the 30 m pipeline corridor and AGIs will be acquired by the Government of Tanzania and leased to the Project Company.

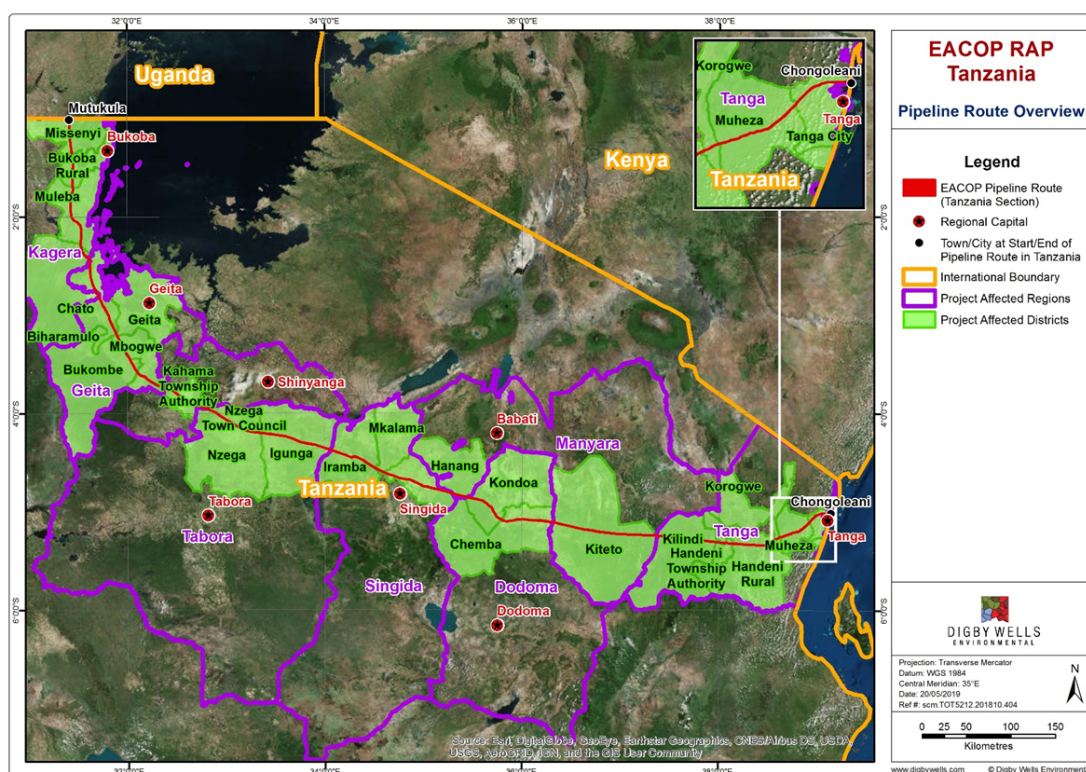


Figure ES 1-2: Pipeline Route and Affected Areas

² The potential exception to this may be related to conversion of certain types of infrastructure crossings (e.g. road reserves and powerline wayleaves which will remain). The arrangements for the pipeline crossing of such land use shall be determined with the relevant technical agencies and the government of Tanzania.

Project Elements and Land Requirements in the Kagera Region

The Kagera RAP focusses on Project elements within areas in the Missenyi, Bukoba, Muleba and Biharamulo Districts. These elements will require land access to an area of 1,430³ and 1,197 acres will be valued and is to be compensated. In addition, the Project in Kagera affects 223.02 acres in the forest and game reserve in Kagera Region within Minziro Nature Forest Reserve, Ruiga River Forest Reserve and Biharamulo Game Reserve which has been valued separately. Table provides an overview of land requirements.

Key points:

- The pipeline directly impacts 20 of the 109 wards in the region, including 31 villages;
- The section of the pipeline in the Missenyi, Bukoba, Muleba and Biharamulo Districts traverses predominantly Village Land and Reserved Land;
- In the affected villages the Project affects 2,172 land parcels;
- Minziro Forest Reserve (FR), Ruiga River FR and Biharamulo Game Reserve are traversed by the pipeline in Kagera Region affecting 223 acres;
- The pipeline corridor will cross 32 roads, and 13 powerlines in the overall pipeline corridor area of Missenyi, Bukoba, Muleba and Biharamulo Districts; and
- The pipeline route in the Kagera Region will cross 68 village tracks, 7 cattle tracks, a number of watercourses (including Kagera River), a number of footpaths, and 2 swamps.

Table ES 1-1: Wards and Settlements along the Pipeline Route

District	Ward	Nearest Kilometer Point (KP)		Pipeline Length (Km)	Land Cover (Acres) ⁴
		Start	End		
Missenyi	Mutukula	296	301.5	5.49	41.37
	Nsunga	301.5	314	12.76	95.11
	Kassambya	314	324	10	75.46
	Kyaka	324	327.5	3.53	26.41
	Kilimilile	327.5	335.5	7.66	57.42
Bukoba	Kyamulaile	335.5	342.5	7.35	56.09
	Mugajwale	342.5	353	5.04	82.89
	Kyaitoke	353	359	5.93	48.85
	Izimbya	359	361	1.86	13.91
	Kyaitoke	361	363.5	2.86	21.63
	Kibirizi	363.5	371	7.13	56.12
	Rukoma	371	373.5	2.88	22.43

³ Includes infrastructure crossings and orphaned land.

⁴ This includes portions of land recorded as "orphaned land" during valuation activities, road and powerline reserves which the Project will not be acquiring.

District	Ward	Nearest Kilometer Point (KP)		Pipeline Length (Km)	Land Cover (Acres) ⁴
		Start	End		
Muleba	Ngenge	373.5	394.5	20.9	169.03
	Burungura	394.5	401.5	6.81	53.54
	Mubunda	401.5	407.5	6.25	94.40
	Bisheke	407.5	410	2.45	29.67
	Kasharunga	410	419	8.85	79.46
	Karambi	419	435	5.29	125.8
	Kyebitembe (including Ruiga and River FR and Biharamulo GR)	435		444.5	79.77
Biharamulo	Nyarubungo (Biharamulo GR)	444.5	463	18.13	142.79
<i>Chato</i> ⁵	<i>Bwongera</i>	<i>463</i>	<i>466.5</i>	<i>3.43</i>	
Biharamulo	Nyarubungo (Biharamulo GR)	466.5	467.5	1.00	7.32
<i>Chato</i> ⁶	<i>Ichwankima, Nyamirembe, Ichwankima, Ilmela, Katende</i>	<i>467.5</i>	<i>503</i>	<i>35.82</i>	
Biharamulo	Nyamigogo	503	510	6.73	50.85
Total Kagera Region				174.58	1 430

3. LEGAL AND POLICY CONTEXT

Chapter 3 describes the legal and policy context of the Project. It presents a broad spectrum of legislation, policy, standards and guidelines relevant to the Kagera RAP. These are drawn from the Tanzanian Regulatory Framework, applicable Project Partner Corporate Standards and International Financing Standards relevant to land acquisition, compensation and resettlement.

The Project is required to meet Tanzanian legislative requirements for land acquisition, compensation and resettlement and has committed to meet the relevant International Financing Standards (IFS) captured in the Equator Principles (EP) III and the Performance Standards (PS) of the International Finance Corporation (IFC).

Tanzanian Regulatory Framework

⁵ The pipeline crosses into Chato District (Bwongera Ward) for 3.43 km before entering back into Biharamulo District, Nyarubungo Ward.

⁶ The pipeline within the boundaries of the Biharamulo Game Reserve crosses into Chato District (Ichwankima Ward) for 9.4 km before exiting the Biharamulo Game Reserve into Chato District for a further 26.42 km and then re-enters Biharamulo District.

Tanzania has a suite of laws and policies related to categories of land, land tenure, land acquisition, compensation and resettlement.

Under Tanzanian law, land is categorized as:

- **Reserved Land:** Land set aside for wildlife, forests, marine parks, road reserves and similar;
- **Village Land:** Land within the boundaries of registered villages, where Village Councils and Village Assemblies have land management powers; and
- **General Land:** Land that is neither Reserved Land nor Village Land and is therefore managed by the Commissioner for Lands.

The land affected in the Kagera Region is predominantly Village Land and Reserved Land.

Legislation and policy underpinning land acquisition and compensation practice in Tanzania falls into three broad groups:

- **Overarching legislation and guidance:** Including the Constitution of the Republic of Tanzania (1997), the National Land Policy (1997, as amended) and the Petroleum Act (No.8 of 2015);
- **Land legislation:** Including Acts related to land, land acquisition, land regulations, removal and relocation of graves, antiquities, valuation and valuers, forestry, roads management, national and marine parks; and
- **Relevant policies:** Including policies informing human settlements development, forestry, agriculture and livestock and water.

Corporate Environmental and Social Standards and Commitments

The Upstream Partners, Total Exploration and Production (E&P) Uganda B.V. (TEPU), Tullow Uganda Operations Pty Ltd (TUOP) and China National Offshore Oil Corporation (CNOOC) Uganda Limited (CUL) have corporate policies pertaining to aspects of social responsibility. These responsibilities include practice relating to the environment, health and safety, ethics, biodiversity protection and operations in sensitive environments.

Inter-Governmental Agreement and Host Government Agreements

The IGA was signed by the Governments of Uganda and Tanzania on 26th May 2017. Within the IGA, Article 3 establishes the Project land rights framework.

Host Government Agreements (HGAs) between the Upstream Partners and the GoU and GoT will follow on from the IGA. While the HGAs are under development and have yet to be signed, the Kagera RAP has adopted the IGA principles, ensuring compliance with these in processes undertaken to develop the Kagera RAP. These include socio-economic and asset surveys, valuation methods and the determination of cash and in-kind compensation.

International Guidance and Standards

In the context of international standards and guidance, the Project and the Kagera RAP align with the provisions of the Equator Principles III and the IFC PS:

- The Equator Principles are a tool adopted by many financial institutions to identify, assess and manage environmental and social risks. As the Project may be seeking funding from Equator Principles financial institutions, Equator Principles guidance on land acquisition, compensation and resettlement is relevant and applicable; and
- The IFC PS provide standards and guidance on the management of project-related social and environmental risks and impacts and the enhancement of development opportunities.

Among the eight (8) IFC PS, four (4) are directly relevant to the Kagera RAP in particular:

- **PS1 Assessment and Management of Environmental and Social Risks and Impacts:** PS advises among other things on the effective management of social impacts, risks and opportunities;
- **PS5 Land Acquisition and Involuntary Resettlement:** PS provides systematic guidance on the planning and implementation of activities to minimize resettlement and displacement impacts and to restore or improve livelihoods and standards of living;
- **PS7 Indigenous Peoples:** PS addresses the management of social impacts among groups that have distinct cultures linked, among other things, to traditional lands and natural resources; and
- **PS8 Cultural Heritage:** PS advises on the protection of cultural heritage where this is at risk as a result of social impacts.

As part of the IGA framework, the Project has agreed to address Human Rights Standards at national and international levels, guided by international good practice in general including the United Nations Guiding Principles on Business and Human Rights.

Gap Analysis

A Gap Analysis between Tanzanian legislative requirements and IFC standards has been undertaken. Gaps have been identified in the context of valuation, socio-economic surveys, eligibility and eligibility cut-off dates, compensation, resettlement assistance, vulnerable people and compensation payment timing. Where material discrepancies have been found, the Kagera RAP (and all other Project RAPs) will apply the more stringent of the two.

4. SUMMARY OF RESETTLEMENT PLANNING, PRINCIPLES AND PROCESSES

Chapter 4 of the Kagera RAP details the main elements of the land acquisition and resettlement planning process. Resettlement planning and implementation is complex, requiring a clear and systematic process, with associated activities and outcomes. The process steps are defined and described, and the phased sequence of steps is explained.

Land Acquisition and Resettlement Process

The Kagera RAP will follow a carefully designed three-stage process to complete land acquisition and resettlement. The process is outlined in Figure ES 4-1 and elaborated in Figure ES 4-2. Figure ES 4-1 shows process steps embedded in each of the stages.

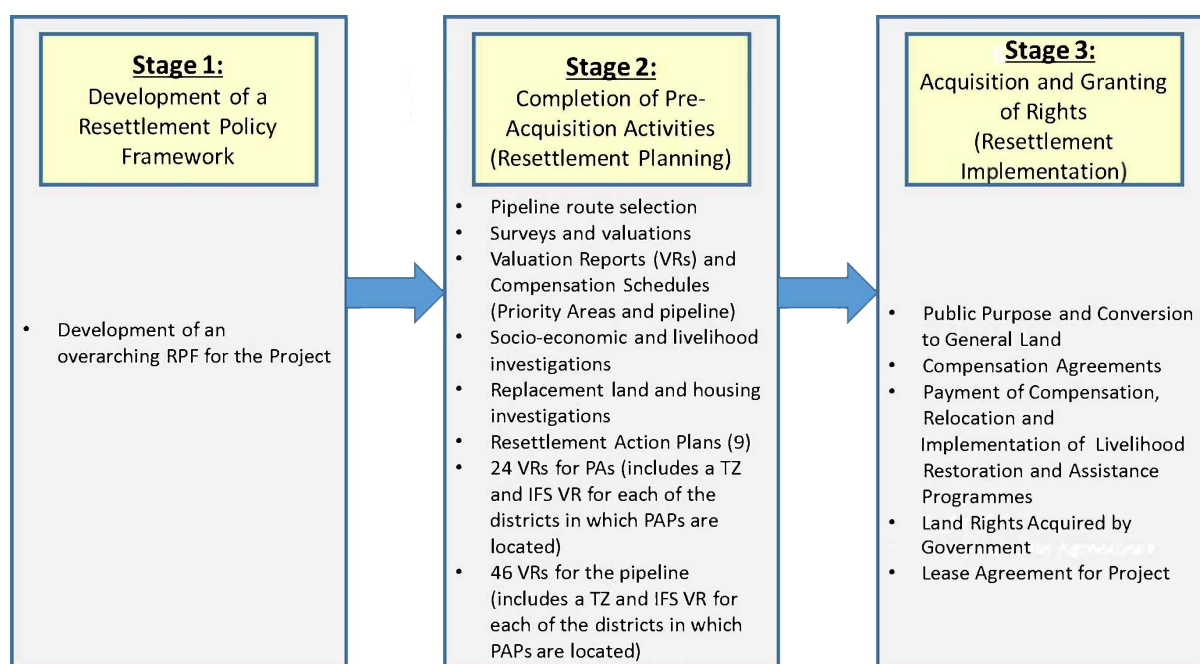


Figure ES 1-3: Summary of the Land Acquisition and Resettlement Process

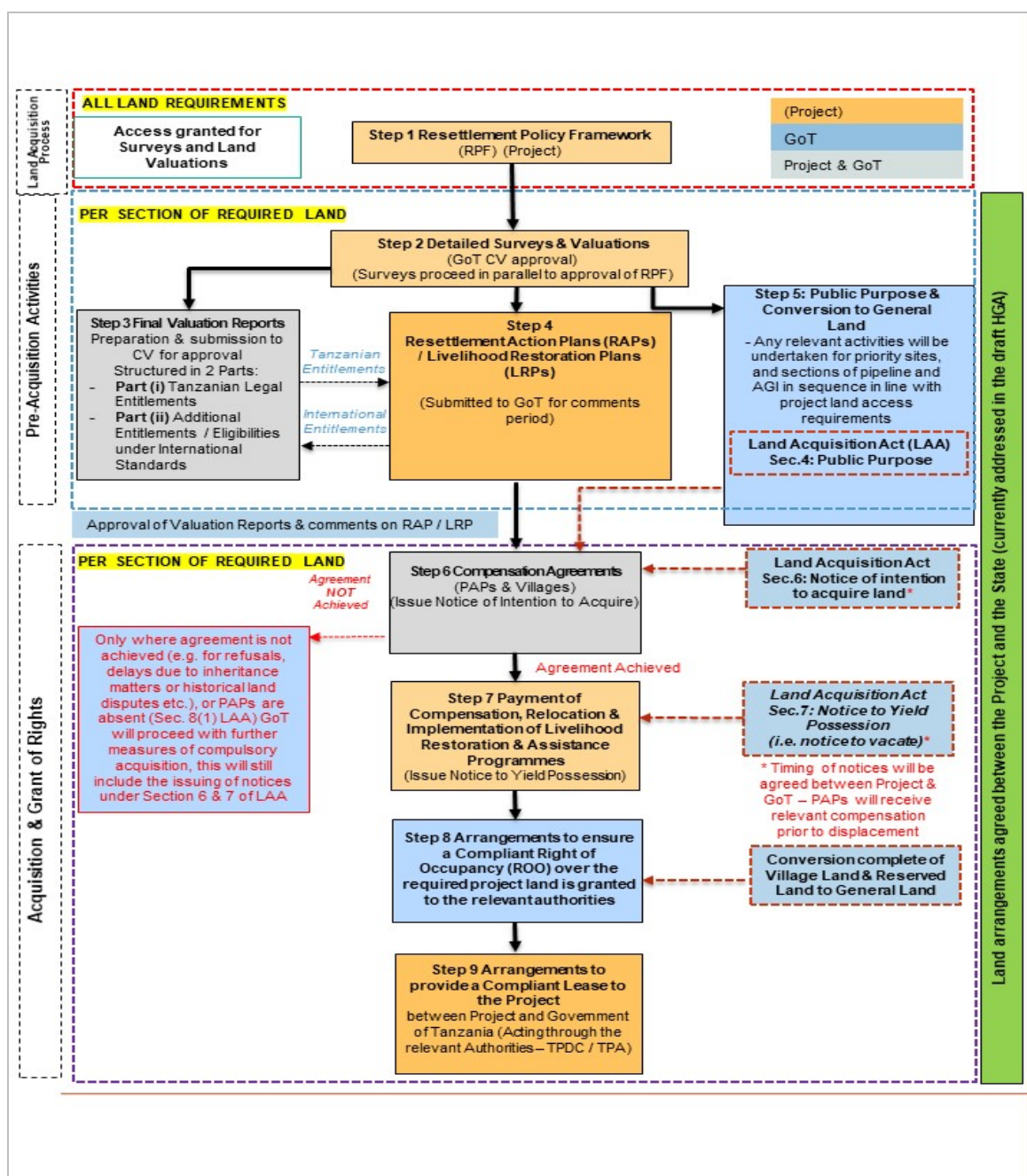


Figure ES 1-4: Land Acquisition Process

The content of the three stages is described below:

Stage 1: Development of the RPF

The RPF defines overarching principles for land access, compensation and resettlement planning and ensures consistency across the Project resettlement planning, including across the nine (9) RAPs and associated Valuation Reports (VRs). The RPF has been drafted and has gone through a comments review period by the GoT which was finalized in September 2018 following receipt of the GoT comments. The RPF was publicly disclosed in October 2018.

Stage 2: Completion of Pre-Acquisition Activities (*Resettlement Planning*)

Table ES 1-2 outlines the context and content of Stage 2 activities and indicates the status (at the time of compiling the Kagera RAP).

Table ES 1-2: Stage 2 Activities

Stage 2 Activity	Context and Description
Pipeline Route Selection	The pipeline corridor was defined by the EACOP engineering team working with other discipline teams and contractors. The site selection criteria included technical issues, environmental considerations and matters of socio-economic and cultural heritage importance. Some sensitive areas were avoided (e.g. Internationally Protected Areas), and physical displacement was minimized wherever possible.
Detailed Surveys and Valuations	<p><u>Preparation and Planning</u></p> <p>An extensive survey program served to inform the VRs and the RAP. Preparation and planning included the development of customized survey instruments, training of survey teams, and organization of teams. All survey teams comprised Tanzanian nationals, with specialist inputs according to survey group focus (for example community sensitization, land delineation and asset valuation).</p>
	<p><u>Establishment of Rates</u></p> <p>The Registered Valuers (RV) for the Project undertook market research in Kagera Region to establish market values and replacement costs for compensable items. A Rates Report was prepared and submitted to the Chief Valuer (CV) for approval.</p>
	<p><u>Execution of Surveys</u></p> <p>Surveys were mostly conducted in the following order:</p> <ul style="list-style-type: none"> • Community Sensitization, including discussion of surveys with local leadership, community awareness meetings and the announcement of cut-off dates; • Land Delineation and Adjudication, including recording land parcel boundaries, taking photographs, and issuance of a Land Form No. 69 to be signed by the District Land Officer (DLO); • Asset Valuation, including careful recording of information on affected assets and cultural sites, compiling asset inventories, taking photographs and recording locations and securing sign-off by the RV, PAPs and local authority representatives; • Socio-economic Information, including PAH and PAP demographic and socio-economic characteristics; and • Posting of Asset Schedules.
Valuation Reports and Compensation Schedules	<p><u>Asset Validation</u></p> <p>Following the posting of asset schedules, PAPs were given the opportunity to register observations and concerns regarding the asset identification and capture. Amendments were made where necessary, where after the assets were valued and compensation figures determined.</p>
Valuation Reports and Compensation Schedules	<p><u>Compilation of Valuation Reports</u></p> <p>When the validation process was completed, the Registered Valuers completed the VR and Compensation documentation for Kagera Region per District. The separate VRs and Compensation Schedules were prepared for Tanzanian compensation items and Additional Entitlements under International Financing Standards Requirements.</p>
	<p><u>Disclosure of Compensation Schedules</u></p> <p>Tanzanian law requires disclosure of Compensation Schedules and compensation details to PAPs. A seven (7) day inspection period is included in the disclosure process. For the Kagera RAP, the following disclosure steps were adopted:</p> <ul style="list-style-type: none"> • Engagement with government entities to outline the disclosure process; • Meetings with affected villages and PAPs to present valuation findings. It was decided that full details of the Compensation Schedules would be disclosed at an individual level; and • Completing any valuation activities including reviewing concerns as raised by PAPs. The valuations activities undertaken during the disclosure process in the Kagera

Stage 2 Activity	Context and Description
	<p>Region marked the date for the valuation of the last person's interest.</p> <p><u>Sign-off, Submission and Verification of VRs</u> Once the VRs and Compensation Schedules have been completed (including responses to PAP concerns) the Final Compensation Schedules must be endorsed by the Field Valuer, the Valuer-in-Charge, the Village Executive Officer, the Ward Officer, the Authorized Land Officer the Authorized Valuer and the District Commissioner. The CV is responsible for final approval, thereafter compensation may proceed.</p>
Socio-economic and Livelihood Investigations (SELI)	<p><u>Preparation and Planning</u> The Kagera RAP socio-economic and livelihood investigations provided material to inform many aspects of RAP development, including the status of Vulnerable People, mitigation measures and livelihood restoration options. SELI preparation tasks included project familiarization, research tool development and training, and on-site training.</p> <p><u>Study Execution</u> SELI fieldwork for the Kagera RAP was undertaken between 30th October 2018 and 31st January 2019.</p> <p><u>Engagement Methods</u> Engagement took the form of Focus Group Discussions (FGDs) and Key Informant Interviews (KII). The former tools were used mainly in community contexts, and the latter with opinion leaders and local leadership. Follow-up small group meetings allowed FGD participants an opportunity to address issues in a less threatening environment.</p> <p><u>Findings and Reporting</u> Findings of the SELI fieldwork supplemented existing socio-economic data and contributed to the development of the LRP, VPP and provided contextual understanding of potentially vulnerable ethnic groups.</p>
Replacement Land and Housing Investigation	<p>A broad replacement housing investigation has been undertaken in the context of building on that prepared for the Priority Areas RAP, with a view to expanding the work to cover areas affected by the entire pipeline. The following are the key elements of the investigation:</p> <ul style="list-style-type: none"> • A team including registered architects and a quantity surveyor (Tanzanian and international); • Field review of impacted structures to determine (among others) the number of structures, size, layout, materials, use of spaces, number of occupants and availability of services; • Visits to suppliers of building materials; • Development of concept designs; and • Preparation of a concept design report for the eight (8) pipeline-impacted regions.
RAP Preparation	<p>The outcomes and results of Pre-Acquisition (Stage 2) activities are documented in the Kagera RAP. The Kagera RAP will be submitted to the GoT on completion and the final document will incorporate any GoT comments thereon. An accessible form of the Kagera RAP will be made available to Project-affected groups and key stakeholders. The Kagera RAP will be disclosed on the EACOP Project website.</p>

Stage 3 (RAP Implementation) is not summarized here but refer to Section 11 of this executive summary for more detail.

5. SUMMARY OF AFFECTED PEOPLE AND ASSETS

Chapter 5 profiles the areas, settlements (villages), households and people affected by the Project in light of Project-related displacement impacts. The work described in Chapter 5 is especially important as a context for further elements of the Kagera RAP, including determination of entitlements and compensation, identification of vulnerable people, and setting parameters for monitoring and evaluation.

Chapter 5 presents a summary of affected people and assets in the Kagera Region. The chapter itself provides an overview of:

- The Kagera Region;
- The Project-affected districts (Missenyi, Bukoba, Muleba and Biharamulo Districts);
- Project-affected communities; and
- Project-affected households.

The structure followed for the socio-economic baseline profiles in Chapter 5 is shown in Figure ES 1-5.

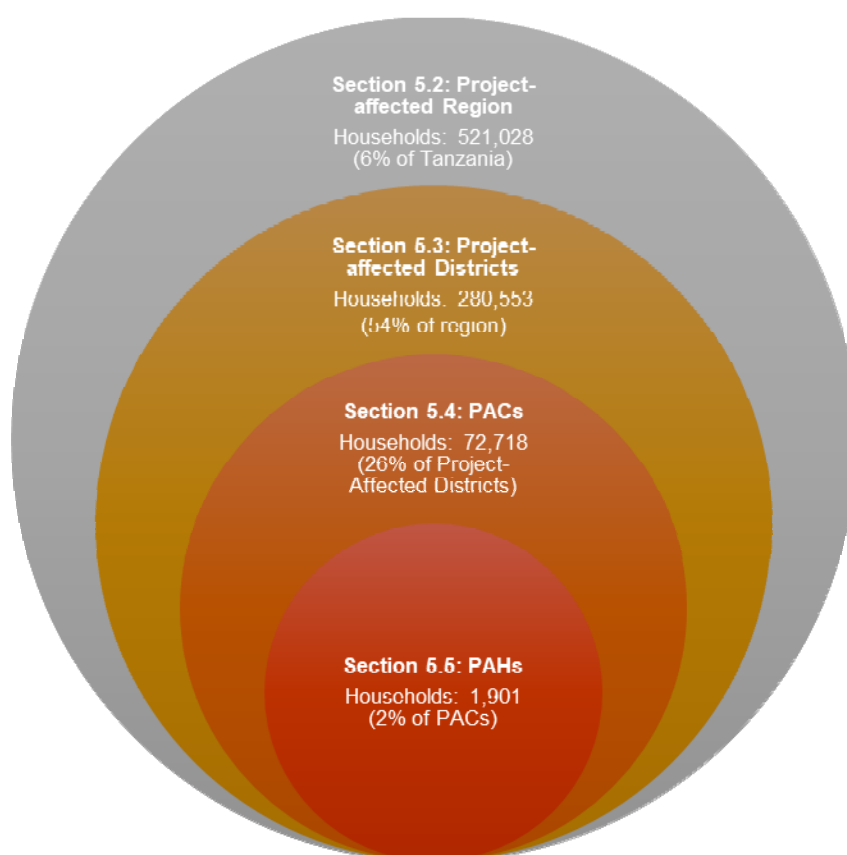


Figure ES 1-5: Structure of Project-Affected Areas discussed in Chapter

Only a summary of the latter group is provided in the executive summary. The main displacement impacts (grouped per ward) are shown in Table ES 1-3.

Table ES 1-3: Summary of Displacement Impacts in the Kagera Region

District	Ward	Pipeline Length (km)	Land Parcels (No.)	Land Area (acres)	PAPs (No.)	PAHs (No.)	Vulnerable PAHs (No.)	Vulnerable Ethnic Group PAHs (No.)	PAHs Losing Dwellings	Buildings and Structures Affected (No.)			Crops Affected			Economic Trees and Other Trees (No.)	Graves
										Residential Dwellings	Other Structures	Incomplete Structures	Crops Acres	Intercropping Acre	Crops Stems		
Missenyi	Mutukula	5.49	76	41.20	62	56	14	1	2	3	7	1	2.97	4.16	6021	6769	6
	Nsunga	12.52	67	94.94	63	52	18	0	2	2	1	0	17.67	0.86	1352	18806	0
	Kassambya	9.91	184	70.53	192	163	63	0	15	15	23	3	12.64	6.13	30936	20614	30
	Kyaka	3.53	45	26.07	53	46	24	0	0	0	1	0	4.27	1.84	3753	3968	19
	Kilimille	7.66	75	56.76	64	61	27	0	3	3	0	0	14.12	1.59	5431	4814	6
Bukoba	Kyamulaile	7.35	23	55.89	21	19	9	0	2	3	2	1	0.31	0.00	640	709	0
	Mugaiwale	10.36	215	82.31	216	196	76	0	10	11	5	6	7.18	11.0	22371	16088	8
	Kyaitoke	5.93	145	47.41	146	138	38	0	12	12	16	5	1.80	14.51	7009	17955	18
	Izimbya	1.86	4	13.91	2	1	0	0	0	0	0	0	0.00	0.00	0	0	0
	Kyaitoke	2.86	3	21.63	2	1	0	0	1	1	0	0	0.00	0.00	0	0	0
	Kibirizi	7.13	71	55.24	64	55	20	0	1	1	0	2	0.93	8.80	1169	3411	3
	Rukoma	2.88	5	22.29	18	16	6	0	0	0	0	0	3.70	0.01	19	0	0
Muleba	Ngeenge	20.9	484	167.81	455	410	175	0	23	24	41	3	19.23	35.6	8039	16378	42
	Burungura	6.81	139	53.54	122	113	76	0	8	8	1	1	7.72	10.15	1697	3385	10
	Mubunda	6.25	61	94.3	61	56	28	0	7	10	13	1	7.6	3.48	693	280	2
	Bisheke	2.45	26	29.58	33	30	19	0	3	4	6	0	4.62	3.06	1011	540	0
	Kasharunga	8.85	217	78.98	213	201	61	0	8	8	20	0	20.41	10.7	8191	3502	9
	Karambi	15.86	279	125.4	257	239	109	0	8	8	14	1	22.96	13.99	8458	5860	9
	Kyebitembe	1.06	13	8.14	12	11	5	0	0	0	1	0	1.92	0.17	122	35	0
Biharamulo	Nyamigogo	6.73	40	50.85	38	37	15	0	2	3	1	0	12.93	2.90	392	130	3
TOTAL: KAGERA REGION		146.39	2172	1196.97	2094	1901	783	1	107	116	152	24	162.98	128.95	107304	123244	165

Overview of Project-affected Households

A summary of the PAH's population and household characteristics of PAHs across the affected wards (grouped per district) is provided in Table ES 1-4.

Table ES 1-4: Summary of Project Affected Households per Affected Ward

District	Ward	Number of PAPs ⁷	Number of PAHs ⁸	Proportion of Households Affected (%)	Average Size of PAH	Household Head (%)		Predominant Residential Status
						Male	Female	
Missenyi	Mutukula	62	56	1.5	7	77	23	Permanent
	Nsunga	63	52	1.0	6	88	12	Permanent
	Kasambya	192	163	2.5	5	71	29	Permanent
	Kyaka	53	46	1.5	6	66	34	Permanent
	Kilimilile	64	61	2.4	6	84	16	Permanent
Bukoba	Kyamulaile	21	19	0.6	6	79	21	Permanent
	Mugajwale	216	196	8.3	5	80	20	Permanent
	Kyaitoke	148	139	5.9	5	75	25	Permanent
	Izimbya	2	1	0.02	3	100	0	Permanent
	Kibirizi	64	55	3.1	6	89	11	Permanent
	Rukoma	18	16	0.6	6	100	0	Permanent
Muleba	Ngenge	455	410	9.7	6	85	15	Permanent
	Burungura	122	113	4.1	6	90	10	Permanent
	Mubunda	42	39	1.6	7	95	5	Permanent
	Mabunda (inc. PS-3)	19	17					
	Bisheke	33	30	0.8	7	93	7	Permanent
	Kasharunga	213	201	3.8	6	78	22	Permanent
	Karambi	257	239	6.3	6	86	14	Permanent
	Kyebitembe	12	11	0.2	7	91	9	Permanent
Biharamulo	Nyamigogo	38	37	1.7	9	78	22	Permanent
TOTAL		2 094	1 901	2.6	6	82	28	-

⁷ Inclusive of government institutions and village authorities.

⁸ Of these, 66 PAHs did not complete a socio-economic survey.

2,094⁹ Project Affected Persons (PAPs), settlements and institutions have been identified, including 1,786 landholders, 277 tenants, 29 villages and one (1) Government Institution.

There are 1,901 PAH - the largest proportion is found in Muleba District (1,060), followed by Bukoba District (426) and Missenyi District (434). Biharamulo District only has 37 PAHs. Of the PAHs, one (1) self-identified as Barabaig.

The primary livelihood activities of most PAHs are agriculture oriented, with an average of 76% of PAHs identifying sales of crops as their primary livelihood activity, followed by an average of 15% who mentioned subsistence farming as the primary livelihood activity. In general, PAHs who reported the sale of crops as their primary livelihood activity engaged in activities such as sales of livestock products, small trading, and salaried work to supplement livelihoods. The inverse was observed for those who primarily depended on salaries and trading for their livelihood – these PAHs tended to depend on sales of crops and subsistence farming for a secondary income.

PAHs in Missenyi District reported maize (26%), beans (22%), coffee (19%) and banana (14%) as their most important crops. Coffee is the most important crop in Bukoba District (29%). In Muleba District, the most important crops cultivated by PAHs are cassava (25%), maize (23%), beans (18%), coffee (10%) and rice (7%). In Biharamulo District, the important crops cultivated by PAHs are cotton (38%), maize (25%), cassava (19%) and rice (16%).

PAHs largely do not have access to grid electricity, hence must rely on paraffin and battery-operated flashlights for lighting. Wood is used by most of the PAHs for cooking, except for PAHs in the Mutukula, Kasambya and Kyebitembe Wards who use charcoal. Due to the lack of piped water, it is sourced in several ways, including communal water wells, government-funded water sources, water vendors and rivers and streams – the majority of PAHs source their water primarily from the latter two sources, i.e. unprotected water sources.

Development Support

PAHs identified access to adequate agricultural inputs as key contributors to food security and economic development. Most of the PAHs do not have the means to access improved seeds, pesticides or fertilizers. Regarding equipment, half of the PAHs indicated that they use leased line plows, and one-third make use of hand hoes. Very few of the PAHs have access to a tractor. Pastoralists identified a lack of cattle dips, access to vaccinations, medication, veterinarian services and lack of grazing land for cattle as key challenges.

In general, water scarcity and distance of water sources for household and for agricultural uses were cited as a challenge. Access to irrigation was regarded as a key development need. Concerns were raised that the Project could contribute to reduced access to water sources. The majority of PAHs listed improved roads as an important priority for development as it provided easier access to markets.

⁹ This includes five (5) PAPs who have land parcels in multiple villages.

Vulnerable Ethnic Groups

Vulnerable ethnic groups, some of whom may self-identify as indigenous people, are defined as a group who are native to an area and who have distinct social and cultural characteristics. These vulnerable ethnic groups have a collective attachment to an area and its natural resources and practice cultural, economic, social, and political customs that are separate from the dominant society.

In the Tanzanian context, four (4) vulnerable ethnic groups have been internationally recognized by the African Commission on Human and People's Rights as indigenous people. These are the Hadzabe, the Maasai, the Barabaig and the Akie. Although the Sandawe along with the Hadzabe were once considered hunter-gatherer groups in Tanzania, the Sandawe have abandoned their hunter-gatherer lifestyle and adopted the agricultural lifestyle of mainstream society. Today the Hadzabe are recognized as indigenous peoples internationally, while the Sandawe are not¹⁰. This RAP has adopted a conservative approach by including the Sandawe as a vulnerable ethnic group.

Data from the socio-economic surveys indicates there is only one (1) household in Kagera Region who self-identifies as belonging to the Barabaig. The project will compensate the PAH for 0.203 acres of land and 148 economic trees. The land is held under customary tenure (unregistered) and is used for agriculture. The PAH is not physically displaced.

Vulnerable Households

Vulnerable people and households may be especially susceptible to Project-induced impacts, including the following: food and cash shortages due to the loss of land to the Project, especially where the PAHs were land poor prior to the Project's arrival; children and relatives making resettlement decisions or agreeing compensation on behalf of elderly PAPs without their consent; and women and children left homeless where the household head absconds with compensation. A total of 783 households are regarded as potentially vulnerable in the Kagera Region (41% of all PAHs).

Displacement Impacts

Table ES 1-5 provides a summary of temporary and permanent displacement impacts. Temporary impacts are expected to be short-term (typically lasting only for the duration of the construction phase) and can be successfully mitigated. Permanent impacts are expected to be long-term and last for the entire lifespan of the Project. Some of these cannot be mitigated and therefore PAHs affected by permanent impacts will be compensated according to local Tanzanian legislation and international good practice.

¹⁰ http://www.africa.kyoto-u.ac.jp/kiroku/asm_normal/abstracts/pdf/36-1/yatsuka.pdf

Table ES 1-5: Summary of Impacts

Impact	Management Actions
TEMPORARY IMPACTS	
Loss of footpaths and tracks	Ensure that the EPC contractor is made aware of the locations of all the affected footpaths and other crossings. The contractor will be responsible for communication with PACs in a timeous manner regarding the closure of any (foot)paths and crossings and provide people with alternative routes, where required.
Disruption of agricultural activities	<p>To ensure that the agricultural production cycle is minimally disrupted, the will as far as possible Project implement the following management actions during construction:</p> <ul style="list-style-type: none"> • Pay PAH compensation as early as possible so that they have sufficient time to locate and purchase replacement land; • Allow as far as possible PAHs to harvest crops; • Assist PAHs to secure replacement land, where required; • Assist PAHs in clearing and preparing replacement land for agricultural production, where required; • Provide transitional food support.
Land speculation	<ul style="list-style-type: none"> • In partnership with the Land Office set up a help desk dedicated to dealing with PAHs seeking to purchase land; the help desk can also include a database of people willing to sell land to PAHs at the government set land rates. • Consider the findings of the EACOP study on Project-Induced In-Migration Situational Analysis July 2019.
Social impacts on PACs	Refer to mitigation measures identified in the ESIA and Project Provisional Human Rights Impact Assessment.
Loss of access to natural resources	<ul style="list-style-type: none"> • If construction of the pipeline section will take longer than a month in forest reserves, consider allowing community members to harvest natural resources by-weekly for a few hours (within any permit or legal restrictions). • Ensure that people continue to have access to the parts of the forest that are not affected through the establishment of designated footpaths and walkways away from the construction zone. • Implement mitigation measures set-out in ESIA regarding environmental off-sets for environmental impacts. • Ensure that all contractors adhere to terms laid out in EACOP Contractor Management Plans.
PERMANENT IMPACTS	
Loss of land	Compensated / replaced
Loss of structures (residential and non-residential)	Compensated / replaced
Loss of crop stems and economic and other trees	Compensated.
Disturbance of graves	Relocated.

6. ELIGIBILITY, ENTITLEMENT AND COMPENSATION FRAMEWORK

Chapter 6 presents the Eligibility, Entitlement and Compensation Framework. This defines the eligibility criteria for affected persons to receive compensation and resettlement assistance, outlines the proposed entitlements for each type of displacement impact resulting from the Project, and determines the compensation rates and values applicable.

This Chapter includes discussion on the following:

- **Eligibility:** Identifies and details “who” is eligible to receive compensation and resettlement assistance;
- **Entitlement:** Defines “what” compensation and assistance each category of affected person is entitled to, including livelihood restoration assistance and the entitlements of potentially vulnerable people, both of which are IFS requirements. The section includes a detailed Entitlement Framework; and
- **Valuation and Compensation:** Defines “how” various impacted assets have been valued and the levels and types of compensation that will be offered to affected persons.

Eligibility

The eligibility criteria were determined at the onset of the Project, as outlined in the RPF. The criteria are based on the requirements of IFC PS5 and national legislation. Eligibility categories relevant to the Kagera RAP are grouped and summarized below (Chapter 6 of the Kagera RAP captures these in more detail):

- Persons who hold rights to land under legal title or customary right of occupancy,
- Persons who own affected buildings and structures such as dwellings, ancillary domestic buildings and agricultural structures;
- Assets affected by the pipeline including land parcels administrated by village councils;
- Institutions who own land and / or buildings and / or public facilities including religious organizations and government authorities;
- Owners of perennial, annual and seasonal (planted and harvested each season) crops;
- Owners of economic trees growing in the affected areas, either on their own land or on the land of others;
- Owners or custodians of cultural heritage assets such as graves;
- Land tenants – i.e. persons who, while not owning the land, have an agreement with landholders to use their land;

- Informal users of land – for example, persons who collect firewood, herbs and medicines, hunters and those who gather other natural resources;
- Informal businesses and petty traders such as market stalls, butchers, crop production facilities (e.g. milling machine shelters), cafés, hairdressers, clothing manufactures, furniture manufactures, kiosks etc.;
- Pastoralists using land for grazing livestock; and
- Vulnerable persons – i.e. persons for whom loss of assets or resources, and / or disruption of access to assets or resources, may have a disproportionate impact on livelihoods, due to their vulnerability and / or livelihood dependency on these activities.

Cut off dates

The cut-off date is determined by the commencement of the asset valuation surveys. Persons occupying or migrating to the Project area after the cut-off date are not eligible for compensation and / or resettlement assistance. The cut-off date has been set for each village affected by the pipeline corridor. These dates were communicated to the PAPs in each village and are presented in Chapter 4.

Validity of Valuation

In accordance with Section 52(3) of the Valuation and Valuers Registration Act, VRs must be endorsed by the CV within six months from the date of "...valuation of the interest in property of the last person". The VRs are valid for a further two-year period from the date of approval by the CV. The date for the valuation of the last person's interest for Missenyi 24th October 2019, Bukoba 24th October 2019, Muleba 25th September 2019 and Biharamulo was 3rd September 2019, respectively.

Entitlements

The findings of the socio-economic and asset valuation surveys together with the eligibility criteria have been used to develop an Entitlement Framework. The framework defines the compensation principles and approach by associating compensation entitlements to the type and extent of the impact and the category of the affected person. All entitlement options have been communicated through stakeholder forums.

Chapter 6 presents a detailed Entitlement Framework for the Kagera Region (Pipeline and AGIs). For the purpose of the Executive Summary the table below captures the structure and general content of the Kagera Region Entitlement Framework.

Table ES 1-6: General Content of the Kagera Region Entitlement Framework

Impact	Effect	Entitled Persons	Entitlement ¹¹	
			In-kind and / or cash	Livelihood Restoration
Land				
Seven categories of land loss considered (residential and agricultural).	Permanent loss.	Legal and customary holders, institutional owners, acknowledged users.	Mix of replacement and cash measures. Combinations vary across categories dependent on significance of impact.	Mix of livelihood restoration options (including group and individual programs). Combination varies across categories dependent on significance of impact.
Loss of Residence by Owner				
Considers loss of residence and other structures (i.e. dwellings, ancillary structures).	Permanent loss (all or part).	Owners (structures and infrastructure, resident and non-resident), government agencies as owners.	Mix of replacement and cash measures. Combinations vary across categories.	Mix of livelihood restoration options (including group and individual programs). Not applicable in all categories.
Loss of resources providing income in cash or kind				
Loss of community accessed resources such as forests, wetlands and non-economic trees.	Permanent and temporary loss (in some community resource cases).	Resource users or persons losing income streams.	Mix of access retention and support measures. Cash measures for loss of communal land and assets.	-
Loss of Communal or Institutionally owned structures or land				
Five categories of loss considered (including pasture land, roads, pathways, drainage and electricity mains).	Permanent and temporary loss.	Village owners, institutions (e.g. religious organizations), district and Local Government, utility company.	Mix of cash, support and access / replacement measures. Combinations vary across categories.	-
Trees and Crops				
Seven categories of loss considered (including loss of crops, trees and agricultural assets).	Permanent loss, or loss / restriction of access.	Land and crop / tree owners, tree users, tenant farmers, village owners, informal owners.	Mix of cash compensation, allowances and support measures. Combinations vary across categories.	Mix of livelihood restoration options physically and economically displaced PAPs.
Cultural Assets				
Graves	Permanent loss.	Individuals or groups laying claim to graves.	Formal grave removal and relocation process. Cash compensation in line with legal requirements.	None.

¹¹ Entitlements are very broadly described. For legal and operational reasons, the full entitlement matrix should be consulted for details of entitlement.

Valuation and Compensation

The Project is obliged to meet Tanzanian legislative requirements for land acquisition, compensation and resettlement as well as applicable international financing standards, including IFC PS5 on Land Acquisition and Involuntary Resettlement. To fulfill these requirements, the valuation process has been completed in three (3) elements (summarized below):

- **Rates Report.** Under the provisions of The Valuation and Valuers (General) Regulations, 2018, the Registered Valuers for the Project undertook market research in Kagera. The research aimed at establishing current or up-to-date market values and replacement costs of compensable items.
- **Valuation Report and Compensation Schedules under Tanzanian Legislation.** This Valuation Report (including Compensation Schedules) covers compensable items listed under the national legislative framework. It is presented as cash compensation; and is submitted for the approval of the CV. All aspects of this valuation process are described in detail in Chapter 6 of the Kagera RAP. The sign-off and approval of the VR and Compensation Schedule under Tanzanian Legislation will follow the requirements of The Valuation and Valuers Registration (General) Regulations, 2018.
- **Valuation for Compensation for Additional Entitlements under International Financing Standards.** The Valuation Report and Compensation Schedules cover additional entitlements under IFS to achieve full replacement cost and eligibility for in-kind compensation such as replacement land, replacement housing, livelihood restoration and assistance to vulnerable people. These are required to ensure that the Project compensation satisfies additional IFS requirements and obligations. While these items are brought to the attention of the CV, they are not intended for approval by the CV as they contain Project-specific additional entitlements and compensation options in accordance with IFS requirements.

PAP entitlements across the Kagera Region have been recorded and tabulated. Details are presented in Chapter 6.

7. REPLACEMENT HOUSING AND LAND

Chapter 7 of the Kagera RAP presents the replacement housing and land strategy that will apply to eligible PAPs and PAHs. The steps underpinning the strategy are described (including a Concept Design Study) and approaches to replacement housing design and replacement land are detailed.

Existing Structures

A Concept Design Study¹² was undertaken to help identify current housing types and practices for use as the basis for the development of concept designs for replacement houses. The study involved a review of previous reports, background information and socio-economic data prior to targeted field visits by the design team who consisted of the architect and a quantity surveyor. The findings of the fieldwork and background research were drawn on to further develop concept designs which include a range of building configurations and sizes based on locally available materials.

In the Kagera Region, 107 households owning 116 residential structures will be physically displaced. Of the 116 residential structures, 113 have been identified as eligible for the replacement housing in-kind compensation. There are three (3) cases where a PAH owns two (2) structures with a total combined floor space of less than 25 m². In these cases, the PAH is only entitled to one (1) replacement house (25m²) and will be compensated for the second smaller structure.

The floor area of the current houses will inform eligibility for various replacement house designs. The final number of replacement structures constructed will depend on the number of PAPs that choose replacement house(s) in preference to a cash compensation option.

The majority of affected structures in Kagera Region are traditional houses constructed from readily available local materials.

Basis for Design

The local architectural style for residential dwellings in Kagera Region were considered in the development of the replacement house design. The design strategy considered similarity of floor space / footprint size; functionality and layout; durability and simplicity of construction; minimum floor space to accommodate comfort, health, safety, social and cultural needs.

Replacement House and Ancillary Structure Designs

Eight replacement house designs have been developed for the Project. They range in size from the smallest at 25m² (Type A) to the largest at 145m² (Type H). Over half (54%) of the structures eligible for replacement in the Kagera Region are less than 25m² and are eligible for the Type A house.

Table 1-1: Houses Types and Eligible Dwellings in Kagera

House	Eligible Dwellings in Kagera	Floor Space	Sub – Type	Number of Rooms
House Type A	61	25m ²	A1	2
			A2	3
			A3	3
House Type B	27	33m ²	B1	3
			B2	4

¹² Replacement Housing Concept Design Report: Pipeline (2019) (Digby Wells Consortium).

House Type C	11	39m ²	C1	3
			C2	4
House Type D	6	47m ²	D1	4
			D2	5
House Type E	3	58m ²	E	5
House Type F	3	75 m ²	F	5
House Type G	1	105 m ²	G	6
House Type H	1	145 m ²	H	8

More detail is provided in Chapter 7 and Appendix D which includes designs for all the Project's house designs (Type A to Type H).

Ancillary Structures

For improvement of living conditions for each replacement house, a PAP will be provided with a covered kitchen shelter and a standard single ventilated improved pit (VIP) latrine. Where a PAP is eligible for more than one (1) replacement house, they can elect for either:

- A standard single VIP latrine (with privacy wall at entrance) and a covered kitchen shelter per replacement house structure; or
- One (1) VIP latrine combined with an ablution (shower) structure, and a covered kitchen shelter plus store per homestead.

Designs for ancillary structures are also detailed in Chapter 7 and Appendix D.

Replacement Land

PAPs that are eligible for replacement land will be given a choice between Project support to secure replacement land and cash compensation (or a combination of both). The same principle will apply in the case of physical displacement. Eligible PAPs will be given the opportunity to choose between cash compensation and replacement land / housing during the RAP implementation entitlement briefings. Initial replacement land requirements are based on the assumption that PAPs who are eligible for replacement land and / or housing will choose the in-kind option rather than the cash option.

Land for Land Replacement

IFC PS5 notes that where livelihoods are land based, it is preferred that replacement land that is at least equivalent to that being lost in terms of productive potential and locational advantage be offered. Unutilized arable land is relatively scarce in Kagera Region (6% to 28% across the 4 districts), so consideration of the most appropriate mechanism to ensure that "land for land" replacement can be achieved is required.

The IFC Draft Good Practice Handbook¹³ suggests that "land for land" replacement can be achieved where households secure their own replacement land (with possible facilitation from

¹³ IFC. Draft Good Practice Handbook: Land Acquisition and Resettlement (2019).

the Project and / or local authorities), or where the Project secures land for allocation. Some PAPs may have land available in the same area, preferring to have their replacement house constructed there. Site suitability will have to be assessed.

Replacement Housing and Land Implementation

A more precise determination of land required for replacement housing and land will be made once PAPs have selected their preferred options and signed compensation agreements. The Project will seek to ensure that displaced PAPs move directly into replacement land, with no requirement for temporary accommodation. There may be circumstances where this is not possible, and the Project will work with PAPs and relevant authorities to provide support during this transition period.

As far as possible, the aim is to provide replacement land in the same village or ward as the land previously owned by the PAPs. Replacement plots will often be Village Land under the jurisdiction of the same village. The Project will support the process to secure documents for the PAP to secure the best available security of tenure.

8. LIVELIHOOD RESTORATION PLAN

Chapter 8 of the Kagera RAP presents the Project's approach to livelihood restoration. This is done in the context of a Livelihood Restoration Plan (LRP). The plan considers eligibility for livelihood restoration, the regional context of livelihood strategies, existing livelihood-related programs, eligibility for livelihood support and livelihood options offered.

The LRP focuses on the restoration and potential enhancement of the livelihoods of PAHs. The provisions of the LRP will apply where compensation alone will not guarantee the restoration of the livelihoods of displaced households.

The overall aim of the LRP is to ensure that there is a measurable improvement in the lives and livelihoods of eligible PAHs. This includes:

- Provision of sustainable livelihood packages that enable PAP and PAH to move beyond dependence on external resources;
- Provision of mechanisms to optimize opportunities for those receiving cash compensation;
- Leveraging off existing skills and interests whilst providing an environment for the development and enhancement of new skills; and
- Promotion of self-reliance and socio-economic empowerment.

The principles underpinning the LRP are aligned with requirements and approaches embedded in applicable national laws and IFI standards. The LRP includes a package of livelihood restoration options that will be offered to PAPs and PAHs. Levels of support will be aligned with levels of impact experienced by households as well as their potential vulnerability. Households identified as potentially vulnerable will be engaged, and customized additional support provided as necessary.

LRP Phasing

The LRP will be completed in two phases:

- Phase 1 – Immediate Livelihood Restoration and support. Focus on the immediate restoration of directly impacted livelihoods and the enhancement of food security.
- Phase 2 – Additional Livelihood Enhancement. Additional programs seeking to further enhance and potentially diversify livelihoods.

Kagera Region Livelihood Context and Strategies

The LRP recognizes and considers the context in which livelihood restoration initiatives are planned and implemented. Important contextual considerations are the following:

- Climate.
- Cultural characteristics.
- Embedded livelihood practices.
- Access to and use of markets.
- Climate variability, crop yields and adaptation.

Assessment of Livelihood Impacts

Livelihood impacts have been assessed in the context of the Sustainable Livelihoods Framework of the Department of International Development (DFID). Using the DFID framework, the overarching livelihood impacts which have been identified in the Kagera Region are:

- Natural – loss of land, loss of trees, loss of crops;
- Physical – loss of residences, loss of village resources;
- Social – impact on cultural resources and institutional structures;
- Human – impact on vulnerable individuals and groups; and
- Financial – impact on individual and household finances.

The LRP provides a summary of various forms of displacement and their impacts on the livelihood strategies of PAPs and PAHs in the Kagera Region.

Eligibility for Livelihood Restoration Support

The Project will offer livelihood restoration assistance depending on the significance of impacts on the livelihoods of PAPs and PAHs, and their resilience and ability to restore livelihoods. From a structured review of impacts on livelihood strategies, criteria have been established to determine the type of livelihood assistance to be offered.

Livelihood restoration is structured around group-level livelihood restoration measures based on the significance of impacts on the PAPs. In addition, some PAPs require access to individual level livelihood restoration support, e.g. physically displaced PAPs and those with vulnerabilities, as they are unable to restore their livelihoods without further assistance due to the degree of Project impact and / or lack of resilience or social standing. Both land and non-land-based measures are contained within the LRP.

Current Livelihood Improvement Programs

Where possible, the Project will look to leverage from and build on livelihood improvement programs being implemented in the area. The livelihoods and related initiatives identified in Kagera Region include the following:

- Non-Governmental Organization (NGO) led programs. These include promotion of environmental protection and sustainability, agricultural and business development advice, effective agriculture and land use, agricultural training and tree propagation and planting.
- The Tanzanian Agricultural Sector Development Strategy. This ambitious strategy seeks to contribute to the Tanzania Development Vision 2025, which envisages raising living standards to middle-income country levels by 2025; and
- Development projects undertaken by the GoT or GoT in partnership with others. Examples are District Council collaboration with the UN Food and Agriculture Organization to strengthen the resilience of local agricultural systems, provision of short-term loans to support agricultural activities, promotion and provision of grain storage bags and the development of a local coffee industry.

Livelihood Restoration Plan

Livelihood restoration options available through the Kagera LRP are the following:

- LRA 1 - Land preparation and planting of replacement agricultural land;
- LRA 2 - Maize and rice improvement program;
- LRA 3 - Crop diversification program;
- LRA 4 - Poultry production program;
- LRA 5 - Livestock improved husbandry program;
- LRA 6 - Improved beekeeping practices;
- LRA 7 - Enterprise development; and
- LRA 8 - Household budgeting and money management training.

LRA 2 and LRA 3 is are especially relevant in Kagera Region, the former to entrench and support widely practiced agricultural livelihood strategies, and the latter to build on diversity already present in the region. LRA 1 is necessary where land is replaced, and LRA 7 and LRA 8 are important to build capacity and self-reliance.

Implementation Partners

The Project may manage the livelihood restoration programs with the assistance of implementing partners (NGOs, CBOs, service providers, community groups) and relevant government departments and local councils. Some potential partners have been identified, including Tanzanian and international NGOs (the latter where active in Tanzania).

Transitional and Temporary Support

Transitional support will be provided to physically and economically displaced PAPs and PAHs to complement compensation payments and to ensure that households can meet their basic needs and maintain their standard of living once access to land has been lost and until

they have had opportunity to restore their livelihood to pre-project levels. These early support components include:

- Transitional support in the form of food baskets (or alternative, such as a voucher system) and other provisions to ensure households are food secure during the transitional period;
- Financial management training for all households receiving cash compensation to provide households with the tools and skills to manage the cash they received; and

Vulnerable and highly impacted households will be monitored closely to ascertain whether the support provided is adequate and to consider any adjustments to the basket of goods. Households will be assessed to determine whether they are eligible to remain on the Transitional Support Program. Assessments will be undertaken at six-monthly intervals of up to 24 months if required.

9. VULNERABLE PEOPLES PLAN

The Kagera RAP Vulnerable Peoples Plan (VPP) in **Chapter 9** gives attention to people who are seen to be especially disadvantaged or vulnerable in the context of the resettlement process. It defines vulnerability and vulnerability categories, shows numbers of households per category, outlines possible livelihood restoration strategies for vulnerable people and addresses modes of engagement with vulnerable groups.

The VPP shows how the Project intends to confirm the vulnerability of potentially vulnerable PAPs, as identified during the survey process, and to address the vulnerabilities noted. This includes ensuring that such PAPs are properly informed of project activities and suitably assisted to address any additional vulnerabilities resulting from Project activities.

The objectives of the VPP are to:

- Ensure that actual and potentially vulnerable people and households are identified and monitored during and after the resettlement process;
- Provide appropriate assistance to households identified as vulnerable to re-establish their livelihoods;
- Identify compensation and restoration packages for vulnerable people that include additional forms of support;
- Assist persons identified as vulnerable to understand their options for resettlement and compensation;
- Carefully consider social networks relating to family and tribal structures and how these can be re-created at resettlement locations; and
- Identify additional measures for vulnerable groups to cope with Project-induced impacts during physical relocation.

Definition and Categorization of Vulnerability

Vulnerability is complex and multi-faceted. In order to capture all aspects and combinations of vulnerability, the Project has developed vulnerability criteria based on factors that might limit the resilience of households to land acquisition and resettlement shocks and impacts.

The criteria were informed by factors such as household head age and gender, education levels of household heads, the presence of physically or mentally disabled household members, dependents and the support resources available, and children out of school. Based on combinations of household vulnerabilities, three categories of vulnerability have been adopted in the Kagera RAP:

- **Category 1** (Vulnerable) households will immediately be placed on the Vulnerable Households Register (VHR) and qualify for in-kind assistance and individual level livelihood support;
- **Category 2** (Potentially Vulnerable) households will qualify for in-kind assistance and livelihood support but will need further verification before being placed on the VHR;
- **Category 3** (At-risk) households will be placed on a “watch list” and must be included in any review / survey to monitor the PAPs.

A summary of these PAHs per ward is provided in Table ES 1-7. Note that Chapter 9 of the Kagera RAP provides details at ward and village level.

Table ES 1-7: Summary of Households per Vulnerability Category (by ward)

Ward	Category 1	Category 2	Category 3
Missenyi			
Mtukula	4	10	18
Nsunga	6	12	5
Kassambya	31	32	31
Kyaka	8	16	11
Kilimilile	10	17	15
Bukoba			
Kyamulaile	3	6	6
Mugajwale	29	47	51
Kyaitoke	16	22	24
Izimbya	-	-	-
Kibirizi	9	11	12
Rukoma	2	4	4
Muleba			
Ngenge	59	116	90
Burungura	27	49	17
Mubunda	8	20	13
Bisheke	6	13	6
Kasharunga	31	30	45

Karambi	49	60	28
Kyebitembe	-	5	4
Biharamulo			
Nyamigogo	9	6	9

The level and nature of vulnerability will differ from one household to the next, and support responses will be customized on a case-by-case basis.

Specific Vulnerability

As part of the VPP, the specific vulnerabilities of women, elderly households, households including disabled family members and potentially vulnerable ethnic groups were assessed. Table ES 1-8 summarizes the key findings.

Table ES 1-8: Assessment of Specific Vulnerabilities

Vulnerabilities	Dimensions of Vulnerability
Women	<ul style="list-style-type: none"> Access to resources possibly limited by unpaid responsibilities including childcare, preparing food and fetching water and firewood. Responsibilities increased where women are heads of households. May also be excluded from village decision making and engagement structures and processes. Other vulnerabilities may compound the difficulties of female-headed households (e.g. disabled household members and insufficient access to land).
Elderly Households	<ul style="list-style-type: none"> Poverty or lack of cash income. Health issues rendering subsistence and self-care difficult. Less socially integrated and more dependent on the support of children, relatives and neighbors. Limited mobility and access to livelihood sites and social services.
Households with Disabled Members	<ul style="list-style-type: none"> Reduced livelihood security, mobility, and household income. Increased healthcare expenditure.
Vulnerable Ethnic Groups	<ul style="list-style-type: none"> Rights not always recognized by governments. Impact to pastoralist livelihood activities due to displacement. Encroachment onto traditional land by commercial Projects and wildlife reserves. Evidence that school attendance among vulnerable ethnic groups is lower and the drop-out rates higher than among other Tanzanians.

Livelihood Strategies for Vulnerable Households

Most PAHs affected by the pipeline corridor in the Kagera Region rely on their land for household subsistence and cash income. Vulnerable households will be especially impacted by the loss of land. Programs to address individual circumstances may include:

- Crop improvement programs;
- Livestock improvement programs and Poultry Production programs, especially poultry which can be farmed intensively in a smaller area and produce greater returns; and
- Non-land-based programs, such as enterprise and skills development.

It is possible that livelihoods are impacted post-displacement, for example, due to climate-related crop failure. The Kagera RAP has identified measures to prevent ongoing PAP vulnerability:

- Support and capacity building for improved land preparation and production;
- Training to help PAPs manage their finances / cash received during compensation;
- Monitoring of PAHs post-relocation; and
- Assistance to vulnerable PAHs unable to re-establish croplands due to limited access to labor.

Engagement Processes for Vulnerable Groups

A key element of supporting vulnerable groups is ensuring that they have access to engagement processes so that they: are provided with sufficient information about the project, including the potential impacts and opportunities relevant to them; can respond and provide feedback to help shape processes and activities in which they are involved and the development process fosters full respect for human rights, dignity, aspirations, culture, and natural resource-based livelihoods

In the overarching context of general engagement with PAHs, the Project has been especially careful to ensure access to information and the involvement of women and spouses as well as implementing targeted measures to ensure adequate, equitable and culturally appropriate engagement with vulnerable ethnic groups (who may potentially be vulnerable to Project-related displacement impacts).

Implementation Support for Vulnerable Groups

Different individuals and households will need different levels of support and assistance during resettlement implementation dependent on their specific area of vulnerability. Specific initiatives to protect and support vulnerable groups during implementation may be considered.

The VPP runs parallel to the wider RAP implementation and will only conclude when the livelihoods of vulnerable people have been restored to at least pre-Project levels. The VPP may be updated during the RAP implementation program.

10. CONSULTATION AND DISCLOSURE

Chapter 10 of the Kagera RAP describes the manner in which interaction with stakeholders has been undertaken. It addresses the identification of stakeholders, engagement structures and methods and engagement and consultation already completed.

The Project is committed to meaningful engagement with all of its stakeholders based on principles of open and transparent engagement, promotion of listening and dialogue, empowerment through engagement, timely and proactive information sharing, freedom from manipulation or coercion, effective and accessible engagement and tools, appropriate engagement methods, respect for human rights and gender and culture sensitivity.

Stakeholder Identification

Interested and affected stakeholders most relevant to the Kagera RAP have been identified and fall in the following broad categories: Directly affected stakeholders including PAPs and related PAHs, and PACs; Other interested stakeholders including the GoT and IFIs; and Civil society organizations including NGOs and CBOs.

Project Engagement Structures

Several key structures are relevant to Kagera RAP planning and engagement. These are shown in Figure ES 10-1.

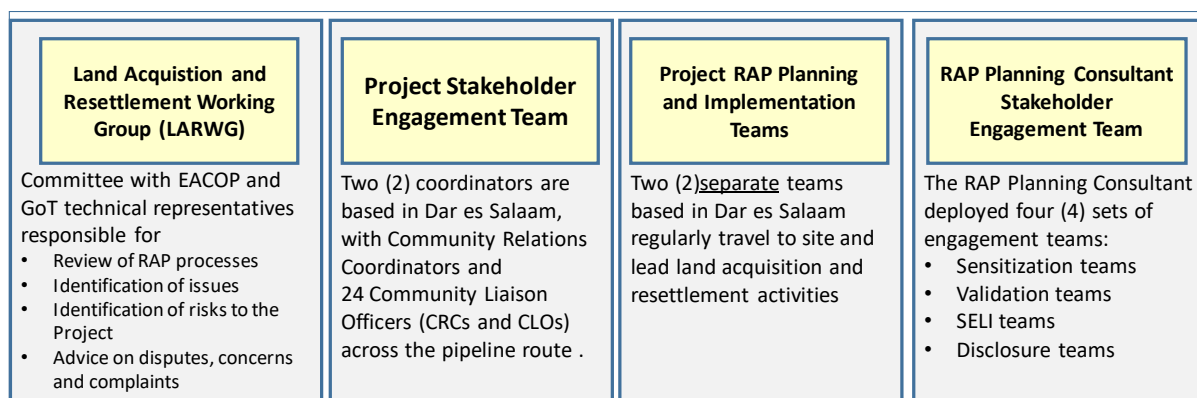


Figure ES 1-6: Project RAP Planning and Implementation Teams

Consultation during the Resettlement Planning Phase

Engagement has been tailored to the needs of different stakeholder groups with consideration of the land acquisition and resettlement phases. Types of meetings included:

- LARWG meetings, meetings with specific government departments, regional government and NGOs;
- District, WDC, VDC and Village Assembly meetings;
- Focus Group Discussions (FGDs) with minority groups / specific groups of stakeholders such as vulnerable ethnic groups, men, women and PAPs / PAHs; and
- Formal and informal one-on-one discussions with PAHs / PAPs including vulnerable ethnic groups.

Meetings were mostly held in English and Kiswahili. Translations to other languages such as Maasai were available where stakeholders did not understand and / or could not speak Kiswahili.

Table ES 10-1 shows the number of formal RAP Planning Phase meetings held (up to the drafting of this RAP) and meeting attendees (excluding Project and RAP planning consultant team members).

Table ES 1-9: Number of Formal Meetings and Number of Attendees

Meeting Type	Sensitization Meeting	Validation Meeting	SELI Meeting	Forestry Meeting	Disclosure Related Meeting	TOTAL
Regional Level Meetings	1	3	N / A	N / A	2	6
District Level Meetings	5	7	38	3	8	61
Ward Level Meetings	19	19	5	N / A	17	60
Village Level Meetings	49	20	107	N / A	35	211
TOTAL	74	49	150	3	62	338
Regional Level Attendees	42	111	N / A	N / A	110	263
District Level Attendees	18	16	157	9	21	221
Ward Level Attendees	144	368	94	N / A	245	851
Village Attendees	412	298	1509	N / A	321	2 540
Village Assembly Attendees	2 700	374	N / A	N / A	995	4 069
TOTAL	3316	1167	1 760	9	1 692	7944

Issues and Grievances

An Issues and Comments register has been compiled. The number of questions and issues related to land and resettlement between the sensitization, validation and SELI meetings decreased significantly. This reduction confirms that, for most part, the information disclosure process during sensitization provided clarity on land and resettlement concerns.

A Project-level Grievance Management procedure and associated documentation have been developed and implemented. A total of one (1) land acquisition and resettlement related grievances were received in the Kagera Region by the RAP Planning Consultant.

11. IMPLEMENTATION OF LAND ACQUISITION AND RESETTLEMENT

Chapter 11 provides an overview of the key activities and processes required for the implementation of the Kagera RAP and the completion of land acquisition and granting of rights. This includes the primary roles and responsibilities of key stakeholders, including both the Project Company and the Government of Tanzania (GoT).

Implementation of the Kagera RAP will take place over three phases (listed below). A phased approach will allow for more accurate budgeting and scheduling, inclusive stakeholder engagement, as well as ensuring key activities and processes are completed in a sequential and logical manner.

The three implementation phases are described briefly below (some activities being in parallel and not sequential):

- **RAP Implementation Planning.** During this phase, work will predominantly focus on the legal requirements for land acquisition and conversion. Final engagement will also be undertaken relating to entitlement and compensation determination;
- **Implementation.** This phase will focus on the drafting and signing of the individual household compensation agreements and the subsequent implementation of their requirements including payment of compensation, construction or replacement housing and relocation and transition support; and
- **Project support Activities.** This will include the initiation and ongoing input to the various livelihood restoration activities (as described in Chapter 8) as well as the implementation of the monitoring and evaluation programme (as described in Chapter 13).

Stakeholder engagement and grievance management will continue throughout.

Implementation Roles and Responsibilities

To ensure that the Project maintains ownership and accountability of the overall process, RAP implementation activities under the Land Acquisition Process (see ES-5 and Chapter 4) will be managed by the EACOP Project Pipeline Team (PPT), as well as the GoT. Roles and responsibilities for the Kagera RAP Implementation phase are summarized in Table ES 1-10 below.

Table ES 1-10: Roles and Responsibilities for the Kagera RAP Implementation Phase

Activity	Project Company / PPT (Project) Role	Government of Tanzania Role
[Step 5] Gazettement of Public Purpose, and Conversion of Land to General Land.	<ul style="list-style-type: none"> • Provide maps and information (including a list of affected villages) of required Project land per section. • Review gazettement area and any orders and / or notices prior to publication in the Gazette. • Provide timing to the GoT and input to the wording of notices of intention to acquire if possible. 	<ul style="list-style-type: none"> • Prepares, issues and publishes necessary orders and / or notices in Gazette required under the LAA. • Undertakes all necessary steps and actions to meet the provisions of the LAA, including for the gazettement and acquisition of land, and for the conversion of certain land (at timing agreed with Project) to General Land as agreed with the Project¹⁴.

¹⁴ This is expected to include, but not be limited to: all required approvals from village, ward, district, regional and national authorities; resolution of any related planning matters; necessary surveys and reports; and notices as prescribed under the legal framework and the publishing of these, as required, in the Government Gazette. Gazettement of the land for the public purpose and conversion of Village and Reserved Land to General Land is to occur simultaneously.

Activity	Project Company / PPT (Project) Role	Government of Tanzania Role
[Step 6] Compensation Agreements		
Entitlements and Compensation Briefings.	<ul style="list-style-type: none"> Conduct additional entitlement briefings at village level to explain and discuss the entitlements to PAPs. 	<ul style="list-style-type: none"> Support provided by GoT in addition to district, ward and village authorities.
Drafting and Signing of Compensation Agreements.	<ul style="list-style-type: none"> Lead the engagement with PAPs and communities to reach compensation agreements. Signatories of Compensation Agreements under discussion with GoT. Determine cases where the GoT's further compulsory acquisition powers need to be engaged and facilitate process, where applicable. 	<ul style="list-style-type: none"> Signatories of compensation agreements under discussion with GoT. Provide support should the engagement process continuously fail to gain agreement overcompensation.
[Step 7] Payment of Compensation, Relocation & Implementation of Livelihood Restoration & Assistance Programs		
Payment of Compensation	<ul style="list-style-type: none"> Payment of compensation (The arrangements for payment of Tanzanian regulatory entitlements are a matter of discussion between the GoT and the Project). 	<ul style="list-style-type: none"> Acquiring Authority for land acquisition. (The arrangements for payment of Tanzanian regulatory entitlements are a matter of discussion between the GoT and the Project.) Oversight of compensation and relocation process.
Construction of Replacement Housing.	<ul style="list-style-type: none"> Preparation of replacement plots for construction of replacement houses. Facilitating the registration of replacement land and payment of all charges that will accrue from the process of acquiring the land and constructing replacement housing. 	<ul style="list-style-type: none"> Support with formal land acquisition, transfer and registration as per Tanzanian legislation.
Relocation and Transitional Support.	<ul style="list-style-type: none"> Provide timing and agree modalities of giving PAPs notice to vacate. Provision of transitional support (where required). 	<ul style="list-style-type: none"> Prepares in agreement with the Project Co. / PPT, issues at the precise time requested by the Project Co. / PPT and publishes statutory notices to yield possession (vacate) to PAPs (and affected villages, as required under the LAA).
Implementation of Livelihood Restoration and Assistance Programs.	<ul style="list-style-type: none"> Refinement of livelihood restoration programs and support to PAPs. Discussions and liaison with regional and district officials & technical staff, NGOs and CBOs. Assess locally based service providers who are able to provide training and post training support. Mobilization of the necessary human, financial and material resources. 	<ul style="list-style-type: none"> Support and potential partnerships with District Agricultural Office. Project to liaise with regional and district official and technical staff.

Activity	Project Company / PPT (Project) Role	Government of Tanzania Role
[Step 8] Granting of Rights and [Step 9] Lease to Land.		<ul style="list-style-type: none"> The GoT will undertake all necessary steps to grant to the relevant authority a Granted Right of Occupancy on required land which comply with the principles set out in the IGA.
		<ul style="list-style-type: none"> The relevant authority to then provide a lease to the Project for the required duration which grants land rights to the Project which comply with the principles set out in the IGA (and relevant other agreements in place at that time between State and the PPT).

Stakeholder Engagement during Kagera RAP Implementation

Stakeholder engagement is critical during all phases of resettlement planning and implementation. Table ES 1-11 shows the Stakeholder Engagement Execution Plan for the Kagera RAP Implementation.

Table ES 1-11: Engagement Execution Plan for Kagera RAP Implementation

Stakeholder Group	Task Description	Deliverables
Engagement with regional and district authorities.	Regular feedback and guidance meetings with regional and district authorities to: <ul style="list-style-type: none"> Provide updates on activities completed; Discuss upcoming activities; Seek guidance on regulatory requirements; Provide feedback on grievances received and resolved; and Solicit feedback and adapt plans accordingly. 	Minutes of meetings. Attendance registers. Meeting invitations.
Engagement with the LARWG.	Regular feedback and guidance meetings with the LARWG to: <ul style="list-style-type: none"> Provide updates on activities completed; Discuss upcoming activities; Seek guidance on regulatory requirements; Provide feedback on grievances received and resolved; and Solicit feedback and adapt plans accordingly. 	Minutes of meetings. Attendance registers. Meeting invitations.
Engagement with PAPs (incl. PAHs and PACs).	Engagement will include: <ul style="list-style-type: none"> Disclosure of resettlement agreement information and notification to PAPs and PAHs regarding resettlement options; Regular community meetings with PACs to disclose relevant information and provide guidance to PAPs on resettlement options as well as provide updates on the progress of the resettlement process; Record options / preferences of PAPs / PAHs; Notification to PAPs of key activities in relation to payment of compensation and commencement of the construction of replacement housing; Accompanying PAPs to the site / s where replacement housing is being constructed (as per agreed schedule of visits); One-to-one engagement with PAPs to support understanding of an agreement on compensation / support packages; Management of complaints and grievances process; Ongoing monitoring and evaluation related engagement with PAPs, RAP implementation partners and other related 	Notes / minutes of discussions / meetings. Notifications of meetings. Signed agreements.

Stakeholder Group	Task Description	Deliverables
	stakeholders; and <ul style="list-style-type: none"> • Discussions and activities related to livelihoods restoration. 	

12. IMPLEMENTATION BUDGET AND SCHEDULE

The Kagera RAP implementation budget and schedule are presented in **Chapter 12**. All components considered in budget formulation are described and scheduling considerations are presented.

An estimated budget for RAP implementation has been developed based on the displacement metrics reported in Chapter 6. All cash compensation contained in the VRs and Compensation Schedules has been included in the budget. In-kind and other entitlements will also be monetized for budgeting purposes. The budget is indicative at this stage and will require further refinement. The main budget components are as follows:

- The cost of **land** is a function of the area of land to be acquired by the Project.
- Owners of Project-affected **occupied and complete residential dwellings** have a choice between cash compensation and replacement structures;
- Cash compensation for **crops and economic trees** has been included in the budget, based on valuation amounts determined during the assess valuation survey;
- **Allowances** have been budgeted for including a disturbance allowance for physically and economically displaced households and a transport allowance for physically displaced persons;
- Compensation for **relocation of graves**;
- The budget for **livelihood restoration** measures includes three main components, including costs associated with, transitional support; costs associated with individual, and household-level livelihood restoration measures and costs associated with community or village-level livelihood restoration measures;
- Additional assistance required by **vulnerable persons or households**. An allowance will be made in the RAP implementation budget for this additional assistance and will be monitored closely; and
- Budget for the resources required for **RAP implementation**.

Indicative Implementation Schedule

The RAP contains an indicative RAP planning and implementation schedule. It is anticipated that the completion of key RAP implementation activities in the Kagera Region will take approximately 21 months from Final Investment Decision.

In addition to key RAP implementation activities there are a number of initiatives that will run beyond the 21-month period. These include stakeholder engagement, Livelihood Restoration and Assistance Programs and Monitoring and Evaluation Programs.

13. MONITORING AND EVALUATION

Chapter 13 describes the Monitoring and Evaluation framework and system to be used for the Kagera RAP. The chapter defines the purpose of both monitoring and evaluation, describes the nature, objectives and purpose of different types of monitoring and evaluation and shows the reporting requirements linked to monitoring and evaluation.

The Project Monitoring and Evaluation (M&E) system will include internal, external and participatory monitoring and reporting processes to ensure complete and objective information is provided.

Indicators will be selected to measure inputs, outputs, and outcomes for resettlement activities and will aim to provide feedback to the Project as well as to relevant stakeholders on the Kagera RAP implementation process. The whole M&E process will be linked to the household level socio-economic and asset surveys undertaken for the development of the Kagera RAP.

This process will also confirm the levels of success of livelihood restoration measures and for that reason M&E of the impacts of resettlement will continue for a reasonable period after all resettlement and related development activities have been completed.

Four main types of M&E will be undertaken:

- **Process Monitoring:** This is an internal monitoring activity that tracks the impacts of the resettlement implementation process on the PAPs, PAHs and PACs. Quarterly reporting will be undertaken by the Kagera RAP implementation team.
- **Compliance Monitoring:** This form of monitoring will establish whether resettlement implementation is meeting the objectives defined in the Kagera RAP. Compliance monitoring should be undertaken quarterly during implementation and for two years following resettlement, after which it will be undertaken bi-annually.
- **Completion Audit:** A completion audit will be conducted by an independent third party to verify that the Kagera RAP implementation met the necessary standards and restored or improved the livelihoods of the PAPs. The timing of the completion audit will be influenced by many aspects of implementation, but it is anticipated to be three around (3) years after the initiation of the LRP.
- **Ex-post Evaluation / Post-Project Evaluation:** An ex-post evaluation will be undertaken by a qualified independent party, in a timeframe determined by the completion audit.

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Appendices

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Appendix D	Replacement Housing and Ancillary Structures Designs

ACRONYMS AND ABBREVIATIONS

Abbreviations or Acronyms	Meaning
ACHPR	African Commission on Human and Peoples' Rights
ACT	Agricultural Council of Tanzania
ADRI	Animal Disease Research Initiative
AE	Acre Equivalent
AFS	Average Farm Size
AGI	Above Ground Installation
AKDN	Aga Khan Development Network
ARI	Agricultural Research Institute
ATM	Automated Teller Machine
AQRB	Architects and Quantity Surveyors Registration Board
BoQ	Bill of Quantities
B.V.	Besloten Vennootschap
CBO	Community Based Organization
CDO	Community Development Officer
CFSVA	Comprehensive Food Security and Vulnerability Analysis
CIS	Corrugated Iron Sheet
CLO	Community Liaison Officer
CNOOC	China National Offshore Oil Corporation
CRB	Contractors Registration Board of Tanzania
CRC	Community Relations Coordinator
CLO	Community Liaison Officer
CSO	Civil Society Organization
CUL	CNOOC Uganda Limited
CV	Chief Valuer
CY	Coating Yard
DAS	District Administrative Secretary
DC	District Commissioner
DED	District Executive Director
DFID	Department for International Development
DLO	District authorized Land Officer
DV	District Valuer
DWC	Digby Wells Consortium
DWE	Digby Wells Environmental
EACOP	East African Crude Oil Pipeline
E&P	Exploration and Production
EHSS	Environmental, Health, Safety and Security
EHT	Electrical Heat Tracing
EIA	Environmental Impact Assessment
EPs	Equator Principles
ERB	Engineers Registration Board of Tanzania
ESIA	Environmental and Social Impact Assessment
EW	Early Works

Abbreviations or Acronyms	Meaning
FAO	Food and Agriculture Organization
FAQ	Frequently Asked Question
FBE	Fusion-bonded epoxy
FDR	Fixed Deposit Reserves
FGD	Focus Group Discussion
FPIC	Free Prior and Informed Consent
GCA	Game Controlled Area
GIIP	Good International Industry Practice
GIS	Geographic Information System
GoT	Government of Tanzania
GoU	Government of Uganda
GPLP	Grain Postharvest Loss Prevention
ha	Hectare
HDPE	High-density polyethylene
HGA	Host Government Agreement
HSE	Health, Safety and Environment
HV	High Voltage
ICP	Informed Consultation and Participation
IFC	International Finance Corporation
IFC PS	International Finance Corporation Performance Standard
IFI	International Financial Institution
IGA	Inter-Governmental Agreement
ILO	International Labor Organization
IP	Indigenous People
ISO	International Organization for Standardization
IUCN	International Union for Conservation of Nature
JV	Joint Venture
Kbpd	Kilo barrels per day
KII	Key Informant Interview
KPA	Key Performance Area
KPI	Key Performance Indicator
m	Meter
km	Kilometer
KP	Kilometer Point
kV	Kilovolt
LAA	Land Acquisition Act
LARWG	Land Acquisition and Resettlement Working Group
LEAT	Lawyers' Environmental Action Team
LHRC	Legal and Human Rights Center
LIP	Livelihood Improvement Program
LOF	Load-out Facility
LRP	Livelihood Restoration Plan
LVBWB	Lake Victoria Basin Water Board
M&E	Monitoring and Evaluation

Abbreviations or Acronyms	Meaning
MCPY	Main Camp and Pipe Yard
ME	Ministry of Energy
MLBV	Main Line Block Valve
MLHSD	Ministry of Lands, Housing and Human Settlements Development
MM	Ministry of Minerals
MNFR	Minziro Nature Forest Reserve
MNRT	Ministry of Natural Resources and Tourism
MST	Marine Storage Terminal
MWTC	Ministry of Works, Transportation and Communication
NEMC	National Environment Management Council
NIMR	National Institute for Medical Research
NGO	Non-Governmental Organization
OA	Open Area
PA	Priority Area
PAC	Project Affected Community
PAH	Project Affected Household
PAP	Project Affected Person
PaulSam	PaulSam Geo-Engineering Company Ltd
PPT	Pipeline Project Team
PS	Performance Standard
PS-3	Pump Station 3
PUF	Polyurethane Foam
QS	Quantity Surveyor
RAP	Resettlement Action Plan
RAS	Regional Administrative Secretary
REA	Rural Energy Agency
ROO	Right of Occupancy
RoW	Right of Way
RPF	Resettlement Policy Framework
SCI	Society of Chemical Industry
Sedit	Socio-economic Development Initiative
SELI	Socio-economic and Livelihood Investigation
SIDA	Swedish International Development Cooperation Agency
SIDO	Small Industries Development Organization
SME	Small Medium Enterprises
SNV	Stichting Nederlandse Vrijwilligers (Foundation of Netherlands Volunteers)
STCL	Safety Training & Consulting Limited
TANESCO	Tanzania Electric Supply Company
TANROADS	Tanzanian National Roads Agency
TARURA	Tanzanian Rural Roads Agency
TASAF	Tanzanian Social Action Fund
TAWA	Tanzania Wildlife Management Authority
TB	Tuberculosis
TBS	Tanzania Bureau of Standards

Abbreviations or Acronyms	Meaning
TEAM B.V.	Total East Africa Midstream Besloten Vernootskap
TEPU	Total Exploration and Production Uganda
TFS	Tanzania Forest Services Agency
Total SA	Total Société Anonyme
TPA	Tanzania Ports Authority
TPDC	Tanzania Petroleum Development Corporation
TRA	Tanzania Revenue Authority
TRC	Tanzania Railways Corporation
TSP	Transitional Support Program
TTCL	Tanzania Telecommunication Company Limited
TUOP	Tullow Uganda Operations Pty Ltd
TV	Television
UK	United Kingdom
UN	United Nations
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNGC	United Nations Global Compact
UWASA	Urban Water and Sanitation Authority
VAM	Vulnerability Analysis and Mapping
VDC	Village Development Council
VEG	Vulnerable Ethnic Group
VEO	Village Executive Officer
VETA	Vocational Education and Training Authority
VIP	Ventilated Improved Pit
VP	Vulnerable People
VPP	Vulnerable Peoples Plan
VPSHR	Voluntary Principles on Security and Human Rights
VR	Valuation Report
WAT	Wax Appearance Temperature
WC	Water Closet
WDC	Ward Development Council
WEO	Ward Executive Officer
WK	Whiteknights Real Estate and Investment Analysts Co. Ltd

GLOSSARY

Term	Definition
Acres per hectare	One acre is equivalent to 0.4 hectares (ha).
Acres Equivalent	A measure of the relative productivity of arable land in a Project-affected district. It is the ratio of two numbers: (a) the number of acres of land that a household in a district needs to sustain itself (taking into account staple crops and their prevalence in that district, as well as district-specific crop yields and average household size); and (b) the average number of acres of land per household across all Project-affected districts (2.57 acres, as reported in 2007 / 2008 agricultural census data).
Average Farm Size	The average agricultural (crop) land holding per household in a district, as reported in 2007 / 2008 agricultural census data.
Asset survey	A survey undertaken to identify and assess all assets by owner and / or rights holder.
BRAC	A non-governmental organization, specializing in poverty eradication and a social enterprise.
Census	A survey of all persons who will be displaced by a project that captures all appropriate socio-economic baseline data of affected persons and their households and records their assets to determine eligibility for compensation and other support.
Coating Yard	A demarcated area where pipeline sections are treated with an insulation coating.
Compensation	Payment in cash or in-kind for an asset such as land and improvements on land, or a resource that is acquired or affected by a project.
Compulsory Acquisition / Expropriation	The power of government to acquire land rights or right in land in the public interest without the willing consent of the owner or occupant.
Construction access road	An access road that links with the existing road network to provide access to construction facilities and the pipeline construction corridor.
Construction Corridor	A corridor used as workspace within which to construct the pipeline.
Construction facilities	Facilities that will be required to facilitate construction of the Project, including construction and coating camps, lay-down areas, construction access roads and other facilities required for storage of equipment.
Contractor	Any or all Contractors that provide services or materials to execute the project pursuant to a contract established by and between Contractor and Developer.
Crude oil	Oil that is extracted from the ground before it is refined into usable products, such as gasoline / petroleum.
Cut-off date	In Tanzania the date of the commencement of the valuation of assets of persons affected by the project. Persons occupying the project area after the cut-off date are not eligible for compensation and / or resettlement assistance. Similarly, fixed assets (such as built structures, crops, fruit trees and woodlots) established after the cut-off date will not be valued or compensated.
Describing flow direction in a pipeline	When describing the direction of travel of product in a pipeline, "downstream" (with the current) means "from the source to an outlet". Conversely, the direction of travel from the outlet to the source is against the current, or "upstream".
Displacement	The physical, economic, social and / or cultural uprooting of a person, household, social group or community as a result of the project.
District	The second-highest administrative division of Tanzania. Each region is subdivided into districts. As of 2012 there are 169 districts. These include rural districts (District Councils) and urban districts (Town Councils, Municipal Councils and City Councils).
Downstream Sector	The downstream (oil and gas) sector is responsible for the refining of crude oil, the processing and purifying of raw natural gas, as well as the marketing and distribution of products derived from crude oil and natural gas.

Term	Definition
Economic Displacement	Loss of assets (including land), or loss of access to assets, leading to loss of income or means of livelihood as a result of project-related land acquisition or restriction of access to natural resources. People or enterprises that may be economically displaced with or without experiencing physical displacement.
Eligibility	Entitlement to compensation and assistance due displacement impacts resulting from Project required land acquisition, revocation of rights and / or the expropriation of property.
Encroachment	The unauthorized use of land in a project land footprint in violation of the terms by which project land was established. Encroachers include people settling and / or using land after a cut-off date has been instated.
Entitlements	Compensation offered to persons, households, groups and / or communities physical and / or economically displaced by the Project. This includes (but is not limited to): financial compensation; the right to participate in livelihood restoration programs; housing, service provision, transport assistance, and other short-term assistance required to move from one site to another.
Entitlement Framework	Describes compensation for both physical and economic losses due to resettlement or displacement and identifies categories of people who will be eligible to receive compensation as a result of these losses.
Equator Principles (EPs)	A risk management tool adopted by 94 financial institutions in 37 countries for identifying, assessing and managing environmental and social risks. The EPs are largely based on International Finance Corporation's (IFC) Performance Standards (PS) (2012) with some additional requirements.
Excavation	Any operation involving movement of earth, rock or other materials below surface level, to include digging, blasting, boring, tunneling and backfilling.
Fallow Land	Arable land left uncultivated for a period of time in order to restore its fertility.
Final Investment Decision (FID)	The Project partners' final decision on whether or not the Project is financially worthwhile as part of their long-term corporate finance decisions. In general, the FID is taken after the completion of certain studies and obtaining of permits as the project is readied for construction.
Focus Groups	A qualitative data collection methodology involving small groups of people to discuss selected points of interest.
Geographic Information System (GIS)	A combination of computer hardware, software and data that is used to capture, maintain, analyze and display information related to the geographic location of features and facilities.
Good International Industry Practice	Practices applied to the Project to achieve the best possible results when managing social and environmental impacts.
Grievance	A matter considered by a Project Affected Person (PAP) / community member to be unjust or unfair as a result of Project activities that causes distress.
Hamlet	In rural areas in Tanzania, a hamlet represents the smallest administrative division of a village.
Host Community	Communities that live in or around areas where physically displaced people will be resettled to or where replacement agricultural land is allocated, and who, in turn, may then be affected by the resettlement. Resettlement may in certain instances give rise to impacts on host communities - for instance, through increased pressure on land, water or other resources, or through changes in local socio-economic dynamics.
Household	A group of persons who may or may not be related, but who share a home or living space, who aggregate and share their incomes, and evidenced by the fact that they regularly take meals together.
Hydrostatic testing	A controlled process to confirm the threshold measurement for the safe operation of the pipeline. Sections of the pipeline are filled with water and pressurized for a certain time to allow for the identification of defects or leaks. It is usually performed following new pipeline construction before the actual product (e.g. crude oil) is introduced into the system.

Term	Definition
International Finance Corporation (IFC) Performance Standards (PSs)	The global benchmark for environmental and social risk management in the private sector.
IFC PS5	The IFC's performance standard for dealing with Land Acquisition and Involuntary Resettlement.
Indigenous People	Social groups with a social and cultural identity distinct from the dominant society rendering them potentially vulnerable to becoming disadvantaged in the development process.
Involuntary Resettlement	Resettlement is considered involuntary when affected individuals or communities do not have the right to refuse land acquisition that will result in displacement. This occurs in cases of lawful compulsory acquisition or restrictions on land use based on eminent domain; and in cases of negotiated settlements in which the buyer can resort to compulsory acquisition or impose legal restrictions on land use if negotiations with the seller fail.
Land Acquisition	Land acquisition includes both outright purchases of property and purchases of access rights, such as rights-of-way.
Land Acquisition and Resettlement Working Group (LARWG)	The overall governing body and management committee through whom the national government collaborate and interact with the Project on matters related to land acquisition, compensation and resettlement. This national-level body comprises representatives of the Ministry of Energy (ME), Tanzania Petroleum Development Corporation (TPDC), Ministry of Lands, Housing and Human Settlements Development (MLHSD), Pipeline Project Team (PPT) and the resettlement consultants.
Light imaging Detection and Ranging (LiDAR)	A remote sensing method that uses light in the form of a pulsed laser to measure ranges (variable distances) to the Earth.
Line Markers	Surface beacons / markers, installed above the pipeline, to indicate the approximate pipeline route.
Livelihood	A livelihood comprises the capabilities, assets and activities required for a person to make a living such as: wages from employment; cash income earned through an enterprise or through sale of produce, goods, handicrafts or services; rental income from land or premises; income from a harvest or animal husbandry; share of a harvest (such as various sharecropping arrangements) or livestock production; self-produced goods or produce used for exchange or barter; self-consumed goods or produce, food, materials, fuel and goods for personal or household use or trade derived from natural or common resources; pensions; various types of government allowances (child allowances, special assistance for the very poor); and remittances from family or relatives.
Livelihood Restoration Plan (LRP)	A plan intended to set out how to replace or restore livelihoods lost or reduced as a result of a project. The plan aims to restore, or if possible, improve, the quality of life and standard of living of affected parties and ensure food security through the provision of economic opportunities and income generating activities of affected property owners and their households.
Load-out Facility (LOF)	Located offshore, the LOF is used to transfer product from the MST onto marine tankers for shipment to end users.
Main Line Block Valve Stations (MLBV)	A mechanical device (valve) installed in a pipeline that can be closed to block the flow of product (crude oil) through the pipeline. MLBVs are located at major crossing points and are used to stop the flow of product through the pipeline and isolate a segment of the pipeline system or a component of the system.
Main Camp and Pipe Yard (MCPY)	An area of approximately 43.2 acres (17.5 ha) consisting of temporary housing, offices, pipe yard kitchen, dining hall and recreation areas. Each camp will be able to house up to 1,000 people. The adjoining pipe yard is where coated pipeline sections are stored before being transported to the construction corridor.
Maintenance	The process of maintaining property or equipment, including pipelines, to preserve them and prevent them from failure and ensure that they will continue to perform their intended function.

Term	Definition
Marine Storage Terminal (MST)	An area close to the coast consisting of a number of external floating roof tanks with discharge pumps and support systems where product will be stored before it is transported to the end user via the offshore LOF.
Marshalling Yards	A support facility used for the delivery, storage and load out of pipe, plant and equipment.
Midstream Sector	The midstream (oil and gas) sector involving the transportation, e.g. by pipeline, storage and wholesale marketing, of crude or refined petroleum products.
Mtaa / Mitaa	Mtaa / Mitaa is the Swahili term for a street or streets. Administratively, Mtaa / Mitaa are local subdivisions in urban wards.
Murram	A form of laterite (a material containing clay) used for road surfaces.
Non-Governmental Organization (NGO)	Any not-for-profit, non-governmental and voluntary citizens group organized on a local, national or international level. It can perform a variety of public service and humanitarian functions and is often guided by a specific mission.
Notice of intention to acquire	An official written notice issued to people who will be displaced by the project, informing them that their land will be acquired (and / or property expropriated) for purposes of the project.
Notice to vacate / yield possession	A written notice issued to owners and occupants of land acquired by the project, informing them to leave the premises within a specified time frame.
Operator	An entity that owns or operates the Project infrastructure to be established.
Orphaned Land	A term to describe land dissected by the pipeline corridor and other facilities leaving portions of the original field no longer viable to cultivate / use. The determination of orphaned land follows a set procedure. Where the remainder of the land is 20% or less of a Project Affected Person's (PAP) land parcel, the remainder of the land has been proposed to be acquired but only where the landowner agrees to relinquishing the orphaned land. Land parcels less than 0.5 acres will be acquired under the Land Acquisition Act (LAA) (which under Section 10 of the Land Acquisition Act (LAA), 1967 is the maximum orphaned land size permissible under Tanzanian Law outside a city, municipality or township), Orphaned land in excess of 0.5 acres is valued for additional entitlements under International Financial Institutions' (IFI) requirements.
Physical Displacement	Loss of permanently occupied house / apartment, dwelling or shelter as a result of Project-related land acquisition that requires the affected person(s) to move to another location.
Pipe Yard	An area where coated pipeline sections are stored during construction before being transported to the construction corridor.
Pipeline	Includes all parts of those physical facilities through which oil moves in transportation. It includes but is not limited to: line pipe, valves and other appurtenances attached to the pipe, pumping / compressor units and associated fabricated units, metering, regulating and delivery stations, and holders and fabricated assemblies located therein, and breakout tanks.
Pipeline Component	Some feature or part of a pipeline, such as pipe, valves, fittings and flanges.
Pipeline Corridor	A linear area where a pipeline is placed.
Pour point	The temperature below which a liquid loses its flow characteristics. In crude oil a high pour point is generally associated with a high paraffin content.
Pressure Reduction Station	Used to regulate the pressure in the pipeline to allow for the continued flow of the crude oil, and to ensure that the maximum allowable operating pressure is not exceeded when oil transfers from the pipeline to storage tanks.
Pressure Relief Valve	A mechanical safety device designed to protect pressurized equipment, such as a pipeline. It relieves pressure by allowing pressurized fluid to flow from an auxiliary passage out of the system and designed or set to open at a predetermined set pressure.
Priority Areas (PAs)	Collective term used in this document for construction camps, coating yard, pipe yards, marshaling yards and construction access roads. These facilities need to be established before other construction activities can proceed; hence land access to PAs will be required some months earlier than for the remainder of the project footprint.

Term	Definition
Project	Activities from design, engineering, procurement, construction, commissioning, operating, maintaining and closure.
Project Affected Household (PAH)	All members of a household, whether related or not, operating as a single economic unit, who are affected by a project.
Project Affected Person (PAP)	Any individual who, as a result of the land acquisition required for the Project, loses the right to own, use, or otherwise benefit from a built structure, land (residential, agricultural, pasture or undeveloped / unused land), annual or perennial crops and trees, or any other fixed or moveable asset, either in full or in part, permanently or temporarily.
Project Developer	The party responsible for the funding, planning, implementation and operations and maintenance of a Project.
Project Finance	The financing of long-term infrastructure, industrial projects and public services based upon a non-or limited recourse financial structure, in which project debt and equity used to finance the project are paid back from the cash flow generated by the project. Project financing is a loan structure that relies primarily on the project's cash flow for repayment, with the project's assets, rights and interests held as secondary security or collateral. Project finance is especially attractive to the private sector because companies can fund major projects off a balance sheet.
Project Financier	A person, company, organization etc. that provides the money / financing for a project.
Project Land Requirements	The area that has to be acquired for the purpose of establishing the on-shore Project infrastructure, including construction facilities and the operational facilities, namely the export pipeline and permanent above-ground installations.
Protective Coating	A substance or material applied to the exterior of the pipe or a pipeline to prevent contact between the pipe and the outside environment. Protective coating is generally applied to prevent corrosion of the pipe. Many types of protective coatings are used on pipelines, including coal tar, tape wraps, and fusion bonded epoxy compounds.
Pumping Station	A facility that houses the pumping infrastructure used to push oil along through a pipeline from the source to the outlet.
Ramsar Convention	An Inter-Governmental Treaty which provides for a framework for national action and international cooperation for the conservation and wise use of wetlands and their resources. The treaty was signed in 1971 in Ramsar, Iran.
Region	The highest administrative division of Tanzania. Tanzania is divided into thirty-one regions (2016), each of which is further subdivided into districts.
Regulatory Framework	The system of regulations and the means to enforce them, usually established by a government to regulate a specific activity.
Resettlement	The displacement or relocation of an affected population from one location to another within the national territory, and the restructuring or creation of comparable living conditions.
Resettlement assistance	Support provided to people who are displaced by a project. Assistance may include transportation, food, shelter, and social services that are provided to affected people during their relocation. Assistance may also include cash allowances that compensate affected people for the inconvenience associated with resettlement.
Resettlement Action Plan (RAP)	A plan that provides a comprehensive set of actions for addressing impacts related to physical and economic displacement. It describes the procedures and activities that will be taken to compensate for losses, mitigate adverse project impacts, and provide development benefits to those who will be resettled or displaced as a result of a project.
Resettlement Policy Framework (RPF)	A requirement for projects with sub-projects or multiple components that cannot be identified before project approval. The framework clarifies resettlement principles, organizational arrangements, and design criteria to be applied to subprojects to be prepared during project implementation.
Responsible Party	Assigned individual(s) with the authority or expertise to define and take corrective action to resolve a grievance.

Term	Definition
Socio-economic Baseline	A baseline record of land use activities within the project footprint as well as the socio-economic characteristics of individuals and communities dependent on the land prior to the commencement of the land acquisition process, host communities that will potentially be impacted by the project.
Spread	On pipeline projects of this magnitude, construction typically takes place concurrently at several locations along the pipeline route, with a construction team at each location moving progressively along the route. The area covered by each individual construction team is referred to as a "spread".
Stakeholder	Individuals or groups of people who are directly or indirectly affected by a project, as well as those who may have interests in a project. They may have the ability to influence the outcome of the project, either positively or negatively.
Substation	Forms part of the electrical generation and distribution system by transforming voltage from high to low, for use on the electrically heat traced (EHT) system.
Trench (to bury pipes in)	A long narrow ditch dug into the ground and embanked with its own soil and used for concealment and protection of the pipeline. Trenches are usually dug by a specialized digging machine.
Trestle	A frame that will support the crude oil transfer lines from the Marine Storage Terminal (MST) to the Load-out Facility (LOF).
Upstream Industry	The upstream (oil and gas) industry is sometimes known as the exploration and production (E&P) sector. It refers to the exploration for, and recovery and production of, products such as crude oil and natural gas.
Upstream Partners	Total E&P Uganda BV (TEPU), Tullow Uganda Operations Pty Ltd (TUOP) and CNOOC Uganda Limited (CUL) are referred to as the Upstream Partners.
Valuation	The valuation of project affected land and assets according to set compensation rates and schedules.
Village	A group of people / households who interact with each other and share an environment within well-defined cultural and geographic margins. In rural areas in Tanzania, villages constitute the second-smallest administrative division (the smallest being hamlets).
Vulnerable Persons	People who, by virtue of gender, ethnicity, age, physical or mental disability, economic disadvantage or social status in the context of the project, may be more adversely affected by displacement than others and who may be limited in their ability to re-establish themselves or take advantage of resettlement assistance and related development benefits. This group may include people living below the poverty line, the landless, the elderly, women, and children-headed households, ethnic minorities, communities dependent on natural resources or other displaced persons who may not be protected through national land compensation or land titling legislation.
Ward	A lower-level administrative subdivision of Tanzania. In rural areas, each ward generally comprises several villages.

1 INTRODUCTION

The East African Crude Oil Pipeline (EACOP) (the ‘Project’) involves the construction and operation of a buried, cross-border pipeline to transport crude oil from the Lake Albert area in Uganda to the eastern coast of Tanzania for export to international markets. The pipeline will run from Kabaale in Hoima District, Uganda, to a Marine Storage Terminal (MST) at Chongoleani, Tanga Region, in Tanzania, on the East African coast. The length of the pipeline is nearly 1,443 kilometers (km), of which 1,147 km will be in Tanzania. Here, the pipeline will traverse eight (8) regions and the land administered by 27 administrative district councils¹⁵. This Resettlement Action Plan (RAP) details the management approach for land acquisition emanating from the 174.58 km section of pipeline corridor traversing the Missenyi, Bukoba, Muleba and Biharamulo Districts within the Kagera Region.

In Muleba District there is one (1) Above Ground Installation (AGI)—namely, Pump Station 3 (PS-3) with its associated access road. The pump station will be located in Kikagate Village, Mabunda Ward. The access road exits the PS-3 on the east side and then runs south and south-east along and partially within the pipeline corridor from KP 405.4 to between KP 412 and KP 412.5. The access road also crosses Milanda Village in Bisheke Ward and Kiteme Village in Kasharunga Ward. There will be a temporary worksite within the PS-3 footprint of the facility. In addition, two (2) Main Camp and Pipe Yard (MCPY) facilities will be built in Kagera Region as part of the Early Works (EW) activities required to support the construction of the pipeline. These include:

- MCPY-05 situated near Bulifani Village, in Kyaka Ward of Missenyi District; and
- MCPY-06 located in Kiguzi Village, Karambi Ward and Muleba District.

PS-3 forms part of this Kagera RAP and the two (2) MCPY facilities form part of the Priority Area (PA) RAP.

Total Exploration and Production Uganda (TEPU) Besloten Vennootschap (B.V.), Tullow Uganda Operations Pty Ltd (TUOP) and China National Offshore Oil Corporation (CNOOC) Uganda Limited (CUL) (‘Upstream Partners’) hold interests in petroleum resource licenses near Lake Albert, Uganda. The Government of Uganda (GoU) and the Government of Tanzania (GoT), combined with the Upstream Partners, wish to construct this cross-border export pipeline, related facilities and infrastructure.

During the initial Project planning stage, a Tanzanian company, Total East Africa Midstream B.V. (TEAM B.V.) was established to perform the functions of the Project Developer and the TEAM B.V. The Pipeline Project Team (PPT) (also referred to as ‘EACOP’) has undertaken the preliminary planning work. Their contact details are as follows:

¹⁵ This comprises: one (1) city council, four (4) town councils and 22 district councils; therefore, a total of 27 administrative district councils.

Name of Developer	Named Key Contact	Telephone
Total East Africa Midstream B.V.	Land and Social Manager, EACOP Project.	+ 255 (0) 800 780 068 (toll free)

1.1 Background to the Resettlement Action Plan

The Project requires access to approximately 9,884 acres (or 4,000 hectares (ha)) of land in Tanzania. Approximately 90% of the land to be acquired comprises the construction corridor for the export pipeline and Above Ground Installations (AGIs), with the remainder required for temporary construction facilities and access roads. The current estimated land requirements¹⁶ of the Project include the following:

- Construction facilities (approximately 641.5 acres¹⁷);
- Access roads (approximately 182.9 acres); and
- Operational facilities (approximately 9,238.3 acres¹⁸).

Land acquisition and resettlement for the Project will comply with following governing structures:

- Laws of the United Republic of Tanzania;
- The Project standards as set out in the Inter-Governmental Agreement (IGA); and
- The requirements of International Financial Institutions (IFIs).

The Project will address the land acquisition and resettlement planning process through the following documents¹⁹:

- An overarching Resettlement Policy Framework (RPF);
- Valuation reports (VRs); and
- Resettlement Action Plans (RAPs).

¹⁶ All land areas for Project components presented in this Resettlement Action Plan (RAP) are produced using the EACOP Project Coordinate System (Transverse Mercator projection with a WGS 1984 datum and central meridian of 35° East) (EACOP TM35).

¹⁷ Including a coating yard (CY) in Tanzania totaling 98.84 acres (40 ha); two (2) main construction camps with marshaling yards of 43.44 acres (17.6 ha) and 45.61 acres (18.5 ha) totaling 89.05 acres (36.1 ha); ten (10) main camps and pipe yards (MCPYs) (comprising 11 sites as one (1) MCPY is split across two (2) sites) totaling approximately 453 acres (183.5 ha).

¹⁸ Including: (i) export pipeline on a 30 m wide corridor (construction and operations) totaling approximately 8,503 acres (3,441 ha); additional temporary construction workspace along corridor totaling approximately 403 acres (163 ha); and (ii) permanent AGIs including a marine storage terminal totaling approximately 178 acres (72 ha), four (4) pumping stations totalling approximately 138 acres (56 ha); two (2) pressure reduction stations totaling approximately 16 acres (6.6 ha); hydro test water storage to be confirmed; main line valves stations and electrical sub-stations / heat tracing relay sub-stations constructed within pipeline corridor.

¹⁹ Additional documents and specialist reports (e.g. for fisheries) may be developed as part of further planning and implementation.

The overarching RPF for the Tanzanian section of the Project has already been completed and sets out the principles (e.g. eligibility criteria, approach to valuation and proposed compensation options etc.), according to which the RAPs will be developed.

In addition, a series of VRs listing the compensation due to each Project Affected Person (PAP), as prescribed by Tanzanian Law and the international standards, has been completed for the Priority Area (PA) valuations and is currently being completed for each of the 24 Districts (which includes four (4) town councils²⁰) impacted by the Project land acquisition process.

Finally, a series of RAPs will be developed for each of the geographical areas impacted by the Project land acquisition process and will include:

- One (1) RAP for the PAs²¹ – already completed;
- Eight (8) RAPs for the pipeline corridor and AGIs – divided in terms of regional administrative geographical areas²²; and
- One Supplementary Plan for the MST site.

Elements of the VRs are generally incorporated into the relevant RAPs.

These three (3) levels of documents collectively comply with national, Project and international requirements relating to land acquisition and resettlement.

1.1.1 Purpose and Scope of the RAP

This RAP is for the pipeline corridor traversing the Missenyi, Bukoba, Muleba and Biharamulo Districts of the Kagera Region of Tanzania and adopts the principles and processes set out in the EACOP Project RPF²³.

Although the pipeline route has been designed to minimize environmental and social impacts, some physical displacement (loss of shelter) and economic displacement (loss of / interruption of access to land or other livelihood resources) for communities, households and individuals are unavoidable to access the land required for various Project components²⁴. In this RAP the most directly impacted stakeholders are:

²⁰ The 24 districts include 27 administrative authorities: 22 district councils, one (1) city council and four (4) town councils. (One of the districts is relatively recent and certain village boundaries are in the process of being resolved. Therefore there are 23 District Valuation Reports with the villagers whose land which now may be within the newer district's administrative boundary being included with their Village in the original District. Direction on this matter was sort with the relevant local government authorities).

²¹ These sites are located along the pipeline route and need to be constructed in the early stages of the Project's program to enable the development of other Project components.

²² These regional administrative geographical areas are Kagera, Geita, Shinyanga, Tabora, Singida, Dodoma, Manyara and Tanga.

²³ The RPF (September 2018) has been disclosed on the EACOP Project website <http://eacop.com/information-center/publications/>.

²⁴ Including the construction and operation of the pipeline and the establishment of construction camps, pipe yards, various permanent AGIs and access roads as summarized in Section 2.1

- **Project Affected Persons (PAPs)** which includes any individual who, as a result of the land acquisition required for the Project, loses the right to own, use, or otherwise benefit from a built structure, land (residential, agricultural, pasture or undeveloped / unused land), annual or perennial crops and trees, or any other fixed or moveable asset, either in full or in part, permanently or temporarily; and
- **Project Affected Households (PAHs)** which includes members of a household, whether related or not, operating as a single economic unit, who are affected by the Project.

The RAP describes the processes followed, or those that will be followed, to comply with relevant Tanzanian laws and IFI requirements for land access, in particular the International Finance Corporation (IFC) Performance Standard 5 (PS5) on Land Acquisition and Involuntary Resettlement (2012).

The RAP aims to establish and describe:

- A summary of the legal framework;
- The individuals and households who will experience physical and / or economic displacement, and the communities who will experience impacts associated with the land acquisition process;
- The way that compensation rates for lost assets were determined;
- Eligibility criteria and the entitlements for affected individuals, households and institutions (including in-kind and cash compensation options);
- The process used to identify affected vulnerable individuals and groups;
- Levels of assistance for resettlement of affected households (including vulnerable individuals and groups);
- Measures to reinstate livelihoods of affected persons and households;
- Roles and responsibilities to undertake and implement the RAP;
- The Project's approach to stakeholder engagement and consultation with PAPs and other interested parties, including the Project grievance management mechanism; and
- Activities required to implement, and monitor land acquisition, compensation and livelihood restoration commitments made within this RAP.

1.1.2 Levels of Institutional Support Provided During RAP Preparation

Various levels of the GoT²⁵ supported and contributed to the processes required to develop this RAP and they will continue to be involved with its implementation. These include:

- **Central Government** with various mandated authorities e.g.:
 - Tanzania Petroleum Development Corporation (TPDC);
 - Ministry of Lands, Housing and Human Settlements Development (MLHHSD);
 - Ministry of Energy (ME);
 - Ministry of Minerals (MM);
 - Ministry of Natural Resources and Tourism (MNRT);
 - Tanzanian Rural Roads Agency (TARURA);
 - Tanzanian National Roads Agency (TANROADS);
 - Tanzania Electric Supply Company Limited (TANESCO);
 - Rural Energy Agency (REA);
 - Tanzania Forestry Services Agency (TFS);
 - Tanzania Wildlife Authority (TAWA);
 - Regional Commissioner's (RC) Office;
 - District Commissioner's (DC) Office; and
 - Water Basins Office.
- **Local Government** within the Project affected region including the following representatives of District Councils:
 - District Executive Directors' (DEDs) Office²⁶;
 - Ward Development Councils (WDCs); and
 - Village Development Councils (VDCs)²⁷.

Although the GoT provides support in various locations across the Project area the main forum for collaboration is the Land Acquisition and Resettlement Working Group (LARWG),

²⁵ All references to "State", "Government of Tanzania", "GoT" and / or the "government" shall be construed as references to the State and / or to the appropriate State Authority, as applicable.

²⁶The District Executive Director's (DED) Office was specifically in an oversight position to the land and asset valuation process.

²⁷Village Development Council (VDC) representatives participated in Project community sensitization and disclosure meetings, mobilized affected households and provided feedback to affected persons on Project related issues, participated in identification of affected persons and households and witnessed the land and asset valuation exercise.

which includes representatives of the Project, TPDC, ME, Tanzania Ports Authority (TPA) and MLHSD.

The LARWG was convened in March 2018 and meets on a regular basis to provide updates on the land acquisition and resettlement process and discusses issues and the future planning of the program. More details on the LARWG and its activities are provided in Chapter 10.

1.2 Summary of Displacement Impacts in Kagera Region

Table 1-1 summarizes the PAPs within the Kagera Region. There are five (5) PAPs within the region who occupy land parcels in more than one (1) village. In the table below, these PAPs have been intentionally double counted to ensure that the numbers of PAPs per village (reported in Chapter 5) correlate with the district total²⁸.

Table 1-1: Summary of PAP Numbers within the Kagera Region

Description	PAPs (No.)	Landholders (No.)	Tenants (No.)	Informal Users (No.)	Villages ²⁹ (No.)	Government Institutions ³⁰ (No.)
Missenyi District						
Total PAPs including those with land parcels in multiple villages.	434	365	59	1	8	1
PAPs with land parcels in multiple villages.	2	2	0	0	0	0
Bukoba District						
Total PAPs including those with land parcels in multiple villages.	469	378	83	0	8	0
PAPs with land parcels in multiple villages.	0	0	0	0	0	0
Muleba District						
Total PAPs including those with land parcels in multiple villages ³¹ .	1 153	1 015	126	0	12	0
PAPs with land parcels in multiple villages.	3	3	0	0	0	0
Biharamulo District						

²⁸The total number of PAPs per district, as reflected in the last row of Table 1-1, counts the PAPs with land parcels in multiple villages as single persons. A PAP with two (2) land parcels is therefore only counted once. For example, if one (1) PAP has land in Igayaza and Byamutemba Villages the land parcels are counted as belonging to one (1) PAP.

²⁹Numbers reflect only those villages that lose land and / or other assets such as trees or structures on Village Land that is administrated by the Village Council. A PAP village is counted only once although more than one land parcel and /or asset of the village may be affected.

³⁰Institutions that are not owned by government are included as landholders and / or tenant PAPs, for example churches.

³¹ There are a number of PAPs who have land and/or assets affected by the pipeline corridor and PS-3 and/or the PS-3 access road in: Kikagate Village in Mubunda Ward. There are also a number of PAPs who have land and/or assets affected by the pipeline corridor and the PS-3 access road (which partially overlaps the corridor) in: Milanda Village in Bisheke Ward and Kiteme Village in Kashruna Ward.

Description	PAPs (No.)	Landholders (No.)	Tenants (No.)	Informal Users (No.)	Villages ²⁹ (No.)	Government Institutions ³⁰ (No.)
Total PAPs including those with land parcels in multiple villages.	38	28	9	0	1	0
PAPs with land parcels in multiple villages.	0	0	0	0	0	0
Total PAPs, (including five (5) PAPs with multiple land parcels in different villages).	2 094	1 786	277	1	29	1
Total PAPs, (counting only once the five (5) PAPs with multiple land parcels in different villages).	2 089	1 781	277	1	29	1

The main land acquisition and resettlement related impacts associated with the 174.58 km pipeline section traversing the Missenyi, Bukoba, Muleba and Biharamulo Districts of the Kagera Region include:

- Missenyi District:
 - Five (5) wards (Mutukula, Nsunga, Kassambya, Kyaka and Kilimilile);
 - Eight (8) villages (Mutukula, Byamutemba, Igayaza, Mabuye, Kassambya, Nyabihanga, Bulifani and Kilimilile);
 - Minziro Nature Forest Reserve (MNFR) in Nsunga Ward;
- Bukoba District:
 - Six (6) wards (Kyamulaile, Mugajwale, Kyaitoke³², Izimbya, Kibirizi and Rukoma);
 - Eight (8) villages (Kyamulaile, Kobunshwi, Mugajwale, Kyaitoke, Izimbya, Rugaze, Kamuli and Nsheshe);
- Muleba District:
 - Seven (7) wards (Ngenge, Burungura, Mubunda, Bisheke, Kasharunga, Karambi and Kyebitembe);
 - Thirteen (13) villages (Rwigembe, Nyakanyasi, Ngenge, Kishuro, Rukindo, Kakoma, Kikagate, Milanda, Kiteme, Kiguzi, Karambi, Kanyamika and Kasindaga);

³² The administrative boundary dataset from Tanzania National Bureau of Statistics 2012 Census survey records has changed and Butalage Ward has been divided post 2012 into two wards namely Butalage and Kyaitoke. Field data included in this RAP and the Valuation Report for Bukoba District has been confirmed with the local authorities. It has been confirmed that the pipeline crosses through Kyaitoke Ward and is therefore referred to in this RAP.

- Ruiga River Forest Reserve and Biharamulo Game Reserve in Kyebitembe Ward: and
- Biharamulo District:
 - Two (2) wards (Nyarubungo and Nyamigogo);
 - Two (2) villages (Nyamigogo and Kasozibakaya);
 - Biharamulo Game Reserve in Nyarubungo Ward;
- A total of 2,094 PAPs are affected, double counting the five (5) PAPs with land parcels in different villages:
 - In Missenyi District, a total of 434 PAPs with 365 landholders (generally with un-registered customary land tenure), 59 tenants, eight (8) villages, one (1) government institution and one (1) informal user recorded as affected PAPs on various land parcels;
 - In Bukoba District, a total of 469 PAPs with 378 landholders (generally with un-registered customary land tenure), 83 tenants and eight (8) villages recorded as affected PAPs on various land parcels;
 - In Muleba District, a total of 1,153 PAPs with 1,015 landholders (generally with un-registered customary land tenure), 126 tenants, and 12 villages recorded as affected PAPs on various land parcels. The land and/or assets of a number of these PAPs are affected by the pipeline corridor and PS-3 and/or the PS-3 access road;
 - In Biharamulo District, a total of 38 PAPs with 28 landholders (generally with un-registered customary land tenure), nine (9) tenants, and one (1) village recorded as affected PAPs on various land parcels;
- The majority of PAPs will experience some level of economic displacement in the form of impacted crops and trees;
- Of the total, 22 PAPs in Missenyi District, 26 in Bukoba District, 57 in Muleba District and two (2) PAPs in Biharamulo District will experience some degree of physical displacement;
- A total of 59 structures in Missenyi District will be affected, 65 in Bukoba, 164 in Muleba and four (4) in Biharamulo Districts, including:
 - 116 residential dwelling structures;
 - 152 other structures including grain storages, livestock kraals, boreholes, fishponds and latrines; and
 - 24 incomplete structures;

- The Project will value and compensate³³ approximately 1,197 acres of land, comprising mostly of un-registered customary land tenure under agricultural land use. In addition the Project in Kagera affects 223.02 acres in the forest and game reserve in Kagera Region within Minziro Nature Forest Resource, Ruiga River Forest Reserve and Biharamulo Game Reserve;
- The Project will cover approximately 1,430.32 acres of land (including 223.02 acres in the forest and game reserves, infrastructure crossings which will remain and orphaned land) in the Kagera Region, of which approximately 1,197 acres has been valued in the District Valuation Reports:
 - In Missenyi District, the pipeline corridor covers a total area of 295.77 acres of land, of which 289.5 acres has been valued (excluding 1.91 acres in Minziro Nature Forest Reserve);
 - In Bukoba District, the pipeline corridor covers a total area of 301.92 acres of land, of which 298.69 acres has been valued;
 - In Muleba District, the pipeline corridor covers a total area of 631.67 acres of land (including 14.15 acres in PS-3), of which 557.75 acres has been valued (excluding 60.53 acres in Ruiga River FR and 10.47 acres in Biharamulo GR); and
 - In Biharamulo District, the pipeline corridor covers a total area of 200.96 acres of land, of which 50.85 acres has been valued (excluding approximately 150 acres in Biharamulo GR);
- A total of 291.93 acres of cropland (including 128.95 intercropping³⁴ acres) were recorded during the valuation as affected: 66.25 acres in Missenyi District, 48.24 acres in Bukoba District, 161.61 acres in Muleba District and 15.83 acres in Biharamulo District;
- A total of 165 graves will be affected: 61 in Missenyi District, 29 in Bukoba District, 72 in Muleba District and three (3) in Biharamulo District;
- The pipeline will cross a number of existing roads (which have reserves associated with them) and powerlines (wayleaves):
 - Thirty-two (32) roads, of which 26 are under TARURA and six (6) are under TANROADS; and
 - Thirteen (13) powerlines, of which five (5) are under jurisdiction of REA and eight (8) are under TANESCO;

³³Not all land covered by the pipeline corridor will be acquired. valued and compensated. For example, road reserves and powerline wayleaves will not be acquired.

³⁴Intercropping is a planting method where two or more crop types are grown together in one field.

- The pipeline route in Kagera Region will cross 68 village tracks, seven (7) cattle tracks, two (21) rivers, seven (7) stream, and two (2) swamps, a number of footpaths and a few other seasonal watercourses.

The figures provided are accurate at the time of issuing this RAP, however, modifications to figures may occur if PAPs query their valuations and amendments are made. Any changes will be captured in a separate register of changes.

1.3 Content of the RAP

Table 1-2 summarizes the structure of the remaining chapters of this RAP.

Table 1-2: RAP Structure Summary

Chapter	Content
Chapter 2	Project description focusing on the Kagera Region describing the steps taken to avoid or minimize displacement.
Chapter 3	Regulatory framework including Tanzanian laws relating to land acquisition, compensation and resettlement; company standards of the Upstream Partners; applicable international guidelines and standards; and an analysis of the gaps between Tanzanian and international standards for land acquisition and involuntary resettlement.
Chapter 4	Principles and processes adopted for land acquisition, resettlement and compensation for the Project including identification of vulnerable individuals and groups.
Chapter 5	Overview of the socio-economic context of the region, district and Project affected wards and villages, and the physical and economic displacement impacts of the land acquisition.
Chapter 6	Entitlement and compensation framework, including eligibility criteria, compensation options, the valuation methodology for land and assets, and the entitlements to be offered to PAPs to meet Tanzanian regulatory requirements and international standards.
Chapter 7	Replacement housing and replacement land.
Chapter 8	Livelihood Restoration Plan (LRP) describing the approach to be adopted by the Project to restore, or improve where possible, the livelihoods and standard of living of persons displaced.
Chapter 9	Vulnerable Peoples Plan.
Chapter 10	Approach to stakeholder engagement, consultation and information disclosure related to the land acquisition program. A summary of engagement activities during the RAP planning is presented, along with more details in a supporting appendix (Appendix C).
Chapter 11	Arrangements for the implementation of the RAP and related stakeholder engagement.
Chapter 12	Budget and schedule associated with the implementation of the RAP.
Chapter 13	Planned monitoring and evaluation of the land acquisition and resettlement program.

1.4 Resettlement Planning Team

The RAP has been prepared on behalf and with the support of TEAM B.V. for the EACOP Project by the RAP Planning Consulting team, Digby Wells Consortium (DWC), which comprises:

- The international environmental and social consulting firm, Digby Wells Environmental (DWE);
- The Tanzanian firms PaulSam Geo-Engineering and Safety Training & Consulting Limited (STCL); and

- The Tanzanian registered valuation firm, Whiteknights Real Estate and Investment Analysts Co. Ltd. (WK)³⁵.

The DWC team included:

- Project Managers with expertise in resettlement planning;
- Senior and junior registered Tanzanian valuers;
- Senior and junior registered Tanzanian land surveyors;
- Stakeholder engagement resources;
- Health Safety and Environment (HSE) teams;
- Logistical support teams;
- Town planner;
- Registered Tanzanian architect;
- Internationally registered architect;
- Registered Tanzanian structural engineer;
- Registered Tanzanian quantity surveyor;
- Agronomists;
- Forest specialist;
- Environmental specialists; and
- Social specialists.

³⁵It is a legal requirement in Tanzania that the valuation of assets for the purposes of compensation and land acquisition be undertaken by a registered valuer.

2 PROJECT DESCRIPTION

2.1 Overall Project Description

The Project entails the construction and operation of a 24-inch in diameter insulated, electrically trace heated, buried pipeline to transport crude oil from the inlet flange at Kabaale Pumping Station in the Hoima District of Uganda (in the area of the Lake Albert Development) to an export facility at an MST in the Tanga Region of Tanzania. The proposed pipeline route alignment through Tanzania is reflected in Figure 2-1.

The pipeline will be buried at an average depth of between 1.8 m and 2 m, the length is approximately 1,443 km, of which approximately 1,147 km is in Tanzania.

The design flow rate of the pipeline will make it capable of transporting 216,000 barrels of crude oil per day (216 Kbpd). A key element of the design is temperature management to maintain the crude oil above pour point³⁶ and as much as possible above wax appearance temperature (WAT). The project components responsible for this task are:

- Electrical heat tracing (EHT);
- Pumping station bulk heaters (later in Project life); and
- MST bulk heaters.

The pipeline will be buried, thermally insulated with polyurethane foam (PUF) and EHT will be installed for the entire length of the pipeline. EHT is a heating system used to raise and / or maintain the temperature of the pipe by an electrical heating element that runs in physical contact along the length of the pipeline. During pipeline commissioning, the EHT will heat the crude oil to keep it above 50°C. At plateau production, pipeline insulation will maintain crude temperature above 50°C without any additional heat supply.

During the operational phase the EHT will provide heating during periods of reduced flow rates, shutdowns or when maintenance is required. This EHT system will require electrical power, which will be in the form of an underground cable that will be installed parallel to the pipeline trench. The power required for the EHT will be acquired from generators at the pumping stations and converted to the required voltage via step-down sub-stations located along the pipeline route.

³⁶ The pour point is the temperature below which a liquid becomes semi-solid and loses its flow characteristics.

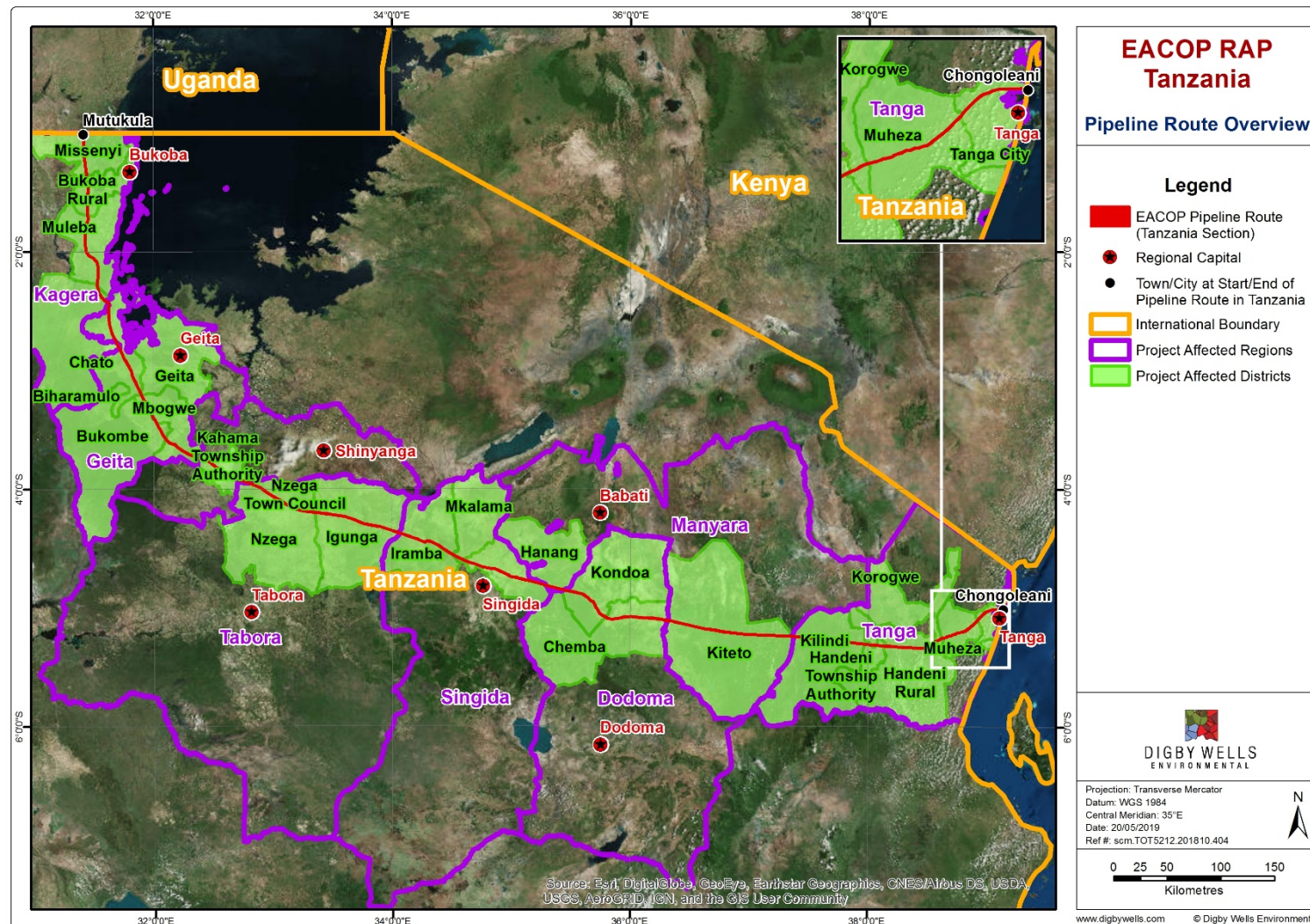


Figure 2-1: The EACOP Pipeline Route

The main Project components in Tanzania include the following:

Priority Area Facilities for Construction

Early Works (EW) facilities (Project components) must be established before construction activities can proceed. These are collectively referred to as Priority Areas (PAs) and include the following components:

- Coating Yards (CY)³⁷;
- Twelve (12) Main Camps and Pipe Yards (MCPYs³⁸); and
- Construction access roads³⁹.

The resettlement process related to land acquisition for these components has been addressed in the Priority Area (PA) RAP that is already completed⁴⁰.

Other Project Components

These include:

- Pipeline construction corridor: A 30 m wide corridor will be utilized during construction. The corridor might be wider in certain areas, depending on the local environment and construction requirements (such as stream / river crossings, road reserves and powerline wayleaves for example). The corridor will be rehabilitated⁴¹ once construction is complete;
- Export pipeline: Following construction, a permanent 10 m wide corridor is required for the safe operation and maintenance of the pipeline set within the 30 m construction corridor⁴². During operation, this corridor will be kept clear from deep-rooting vegetation and permanent structures to ensure the safe operation of, and

³⁷ The pipe will be imported in sections with a fusion-bonded epoxy coating already applied. A CY facility will be constructed in Tanzania for these sections of pipe to then have insulation applied.

³⁸ These camps will consist of temporary housing, offices, a kitchen, a dining hall and recreation areas and will be located at reasonable intervals along the construction corridor. Each camp will also house a pipe yard, a sewerage treatment facility and waste management area, driveways within the facility and, in some cases, a helipad. One (1) of these facilities will be split across two (2) sites, a main camp (MC-13) and a pipe yard to store pipes (PY-13). At least two (2) of these camps (MCPY-08 and MCPY-16) will be used as marshalling yards for distribution of the pipes.

³⁹ These access routes will link up to the existing road network and will provide access to certain construction facilities and the pipeline construction corridor. The intention is these accesses will be built by the Project. Only a few of the PAs require new access roads to be constructed with others simply requiring very short entrance driveways into the facility from the existing road network to be built.

⁴⁰ Digby Wells Consortium (2018). EACOP Priority Areas Resettlement Action Plan.

⁴¹ In areas categorized as Village Land prior to the Project, the 30 m wide corridor will be restored to grassland. In areas previously categorized as Reserved Land and designated as a protected and / or designated area (e.g. Forest Reserve, Game Reserve, Wildlife Management Area, Game Controlled Area and Open Area) land cover will be restored and land use managed to achieve equivalent biological capacity.

⁴² Following engagements with the government and review of the Tanzanian land tenure and legal framework, the 30 m construction corridor will be acquired permanently and converted to General Land. The Right of Occupancy (ROO) for the pipeline corridor will be granted to the TPDC and a lease for the full 30 m corridor provided to the Project Company.

easy access to, the pipeline for maintenance purposes. However, the operation of the pipeline will not present a barrier to people and livestock. Once the pipeline is buried, markers planted at regular intervals will be visible along the corridor;

Above-Ground Installations:

- Sub-station: The EHT system will require electrical power, in the form of an underground cable that will be installed parallel to the pipeline trench. The power required for the EHT will be acquired from generators at two (2) of the pumping stations and converted to the required voltage via step-down sub-stations located at intervals along the pipeline route; and
- Main Line Block Valves (MLBVs): MLBVs are required primarily to isolate a section of the pipeline in the unlikely event of a rupture (where the pipeline design includes a leak detection system (fiber optic cable) for the entire pipeline). MLBVs will be located at major crossing points, active seismic areas and at each of the pumping stations and pressure reduction sections.
- Pumping stations: Four (4) pumping stations in Tanzania are located at strategic intervals along the pipeline and are used to monitor the flow in the pipeline and to boost the pipeline's internal pressure and flow (if required) to ensure safe operating limits. Pump station (PS) 3 is located in Kikagate Village, Mubunda Ward, Muleba District in Kagera Region and
- Pressure reduction stations: Two (2) pressure reduction stations in Tanzania will regulate the pressure in the pipeline to ensure continued flow and that the maximum allowable operating pressure is not exceeded when the oil exits the pipeline and enters the storage tanks. There will be an additional pressure reduction station at the MST.

Marine Storage Terminal and Load out Facility

- MST: The crude oil will be stored at the MST before it is moved to the offshore load-out facility from where it is transported to the end user. The MST consists of floating roof tanks, discharge pumps and associated support systems, and a trestle with transfer lines that connects the MST to the load-out facility;
- Load-out facility (LOF): From the MST, crude oil will be discharged through pipelines to offshore LOF where it is loaded onto marine tankers for shipment to end users. A LOF will be constructed, including a jetty, to transfer crude oil to vessels (i.e. ships) at a sheltered deep-water site offshore; and
- Jetty: A jetty of approximately 2 km in length will connect the MST with the LOF.

Other components:

- Hydro test water storage facilities: These facilities will be used to perform hydrostatic testing on the pipeline prior to commissioning to confirm the threshold measurement for the safe operation of the pipeline.

The GoT will acquire all land required for the Project on a permanent basis. The Government will provide a lease to the Project which will comply with the principles set out in the IGA (see Section 3.3). For the PAs a short-term lease of sufficient duration to support the construction, pipeline commissioning and construction facilities' decommissioning, will be secured for the Project. On expiry of the lease, land will revert to the Government.

Access restrictions to Project land during construction and operation will be determined on the basis of health and safety considerations. The PA coating yards, main camps and marshaling and pipe storage yards will be fenced. Access to these facilities will be strictly controlled.

The AGIs will be fenced and access strictly controlled by the Project. The pipeline corridor will be unfenced, except where health and safety considerations require access restrictions. Existing vehicle crossings will be maintained. Where certain restrictions are unavoidable (e.g. during construction in specific areas), provisions will be made for crossings of the pipeline route by people, vehicles and livestock near the restricted zone. More details on the proposed land use restrictions for the pipeline corridor and other Project installations are contained within the RPF⁴³.

2.2 Overview of Project Elements in the Kagera Region

This RAP focusses on the Project elements to be constructed in the areas within the Missenyi, Bukoba, Muleba and Biharamulo Districts of the Kagera Region, namely; a pipeline construction corridor, export pipeline and associated AGIs. This section describes the:

- Location and setting of the Project;
- Land requirements; and
- Land context.

2.2.1 Location and Setting of the Project

The land valued (in the District Valuation Reports) and to be compensated for the Project, within the Kagera Region is approximately 1,197 acres plus 223.02 acres of land affected in the forest and game reserves. The 1,197 acres comprises approximately 289.5 acres in Missenyi District, 298.69 acres in Bukoba District, 557.75 acres in Muleba District and 50.85 acres in Biharamulo District. The total acres required in the Kagera Region represents approximately 0.04% of the four (4) districts' total land area.

⁴³ Digby Wells Consortium (2018). East African Crude Oil Pipeline (EACOP), Tanzania Section: Resettlement Policy Framework (RPF) (September 2018.) (Digby Wells Environmental; PaulSam Consultants; Whiteknights Real Estate and Investment Analysts Company Ltd.).

The pipeline directly impacts 21⁴⁴ of the 109 wards within the four (4) districts including 31 of the 411 villages. Figure 2-2 to Figure 2-5 illustrate the route of the Project pipeline through Kagera Region:

- The pipeline corridor enters the Missenyi District from the Ugandan Border (Kilometer Point (KP)-296)) in the north and traverses approximately 39.35 km to the south, covering an area of 295.77 acres⁴⁵, before crossing into Bukoba District (KP-335.5). Within the Missenyi District, the pipeline traverses approximately 17.8 km before crossing the MNFR for 240 m.
- The pipeline traverses for 38.37 km in Bukoba District, covering an area of 301.92 acres, followed by 71 km in Muleba District, covering an area of 631.67 acres (including PS-3 with a temporary worksite and the access road associated with PS-3).
- It then enters Biharamulo District (KP-444.5). Approximately 18.13 km into Biharamulo District it crosses into Chato District, Geita Region (KP-463), before re-entering Biharamulo District again for approximately 1 km (KP-466.5 to KP-467.5) before continuing through Chato District. The pipeline then re-enters Biharamulo District for a third time (KP-503). After approximately 6.73 km, it exits Biharamulo District (KP-509.5).

It should be noted that the currently available Tanzanian Geographic Information System (GIS) dataset for administrative boundaries does not always align with data collected in the field. According to the currently available Tanzanian GIS data the pipeline corridor will pass through several wards within the region which field data shows differently. These are summarized as follows:

- In Bukoba District: the Butalage Ward has been divided post 2012 into two wards namely Butalage and Kyaitoke. Field data included in this RAP and the Valuation Report for Bukoba District has been confirmed with the local authorities. It has been confirmed that the pipeline crosses through Kyaitoke Ward;
- In Muleba District:
 - The field data collected for the Ruiga River Forest Reserve indicates that the Reserve itself does not extend into Karambi Ward but ends at the Muleba-Chato Trunk Road in Kyebitembe Ward.
 - According to the Tanzanian GIS dataset the locations of the Nyakanyasi and Rwigembe Villages fall within the Mushabago Ward, while verified field data shows that the villages fall within the Ngenge Ward.

⁴⁴ One ward (Nyarubungo) the pipeline traverses only land associated with Biharamulo Game Reserve.

⁴⁵ The acreages reported in this paragraph reflects the impacted land and includes portions of land recorded as "Orphaned Land" and Reserved Land. Not all of this land will be acquired. Land that will be acquired are reported in Table 5.1.

- Kiguzi and Kanyamika villages are from field data in Karambi ward however from the GIS dataset they are shown in Kasharunga and Kyebitembe wards, respectively.

2.2.2 Project Land Requirements in the Kagera Region

Table 2-1 below summarizes the length of the pipeline that crosses the relevant wards and villages in the Missenyi, Bukoba, Muleba and Biharamulo districts and the size of land impacted within each.

Table 2-1: Summary of Pipeline Corridor in Kagera Region

District	Ward	Village	Nearest Kilometer Point (KP)		Pipeline Length (Km)	Land Cover Area (Acres) ⁴⁶
			Start	End		
Missenyi	Mutukula	Mutukula	296	301.5	5.49	41.37
	Nsunga	Byamutemba	301.5	308.5	6.98	51.73
		Igayaza	308.5	313.5	5.38	40.32
		Minziro Forest (MNFR) Nature Reserve	313.5	314	0.24	1.91
		Igayaza	314	314	0.16	1.15
	Kassambya	Mabuye	314	318.5	4.43	33.49
		Kassambya	318.5	320	1.50	12.36
		Nyabihanga	320	324	3.98	29.61
	Kyaka	Bulifani	324	327.5	3.53	26.41
Kilimilile	Kilimilile	327.5	335.5	7.66	57.42	
Bukoba	Kyamulaile	Kyamulaile	335.5	342.5	7.35	56.09
	Mugajwale	Kobunshwi	342.5	347.5	5.04	40.94
		Mugajwale	347.5	353	5.32	41.95
	Kyaitoke	Kyaitoke	353	359	5.93	48.85
	Izimbya	Izimbya	359	361	1.86	13.91
	Kyaitoke	Rugaze	361	363.5	2.86	21.63
	Kibirizi	Kamuli	363.5	371	7.13	56.12
Rukoma	Nsheshe	371	373.5	2.88	22.43	
Muleba	Ngenge	Rwigembe	373.5	378	4.27	33.31
		Nyakanyasi	378	382	3.85	30.58
		Ngenge	382	388	6.17	49.12
		Kishuro	388	392	4.06	33.11
		Rukindo	392	394.5	2.55	22.91
	Burungura	Kakoma	394.5	401.5	6.81	53.54
Mubunda	Kikagate (includes PS-3 site at KP405.4 and part	401.5	407.5	6.25	94.40	

⁴⁶ This includes portions of land recorded as "orphaned land" during valuation activities, and road reserves and powerline wayleaves which the Project will not be acquiring

District	Ward	Village	Nearest Kilometer Point (KP)		Pipeline Length (Km)	Land Cover Area (Acres) ⁴⁶
			Start	End		
		of access road)				
	Bisheke	Milanda (part of PS-3 access road runs along the pipeline corridor partially)	407.5	410	2.45	29.67
	Kasharunga	Kiteme (part of PS-3 access road runs along the pipeline corridor partially)	410	419	8.85	79.46
	Karambi	Kiguzi	419	424	5	41.38
		Karambi	424	426.5	2.61	21.45
		Kanyamika	426.5	435	8.25	62.97
	Kyebitembe	Kasindaga	435	436	1.06	8.77
		Ruiga River Forest Reserve	436	443.5	7.54	60.53
		Biharamulo Game Reserve	443.5	444.5	1.28	10.47
Biharamulo	Nyarubungo	Biharamulo Game Reserve	444.5	463	18.13	142.79
<i>Chato⁴⁷</i>	<i>Bwongera</i>	<i>Biharamulo Game Reserve</i>	<i>463</i>	<i>466.5</i>	<i>3.43</i>	<i>-</i>
Biharamulo	Nyarubungo	Biharamulo Game Reserve	466.5	467.5	1.00	7.32
<i>Chato⁴⁸</i>	<i>Ichwankima, Nyamirembe, Ichwankima, Ilmela, Katende</i>		<i>467.5</i>	<i>503</i>	<i>35.82</i>	<i>-</i>
Biharamulo	Nyamigogo	Nyamigogo	503	504.5	1.17	8.83
		Kasozibakaya	504.5	510	5.56	42.02
TOTAL Kagera Region					174.58	1 429.57

⁴⁷ The pipeline crosses into Chato District (Bwongera Ward) for 3.43 km before entering back into Biharamulo District, Nyarubungo Ward.

⁴⁸ The pipeline within the boundaries of the Biharamulo Game Reserve crosses into Chato District (Ichwankima Ward) for 9.4 km before exiting the Biharamulo Game Reserve into Chato District for a further 26.42 km and then re-enters Biharamulo District.

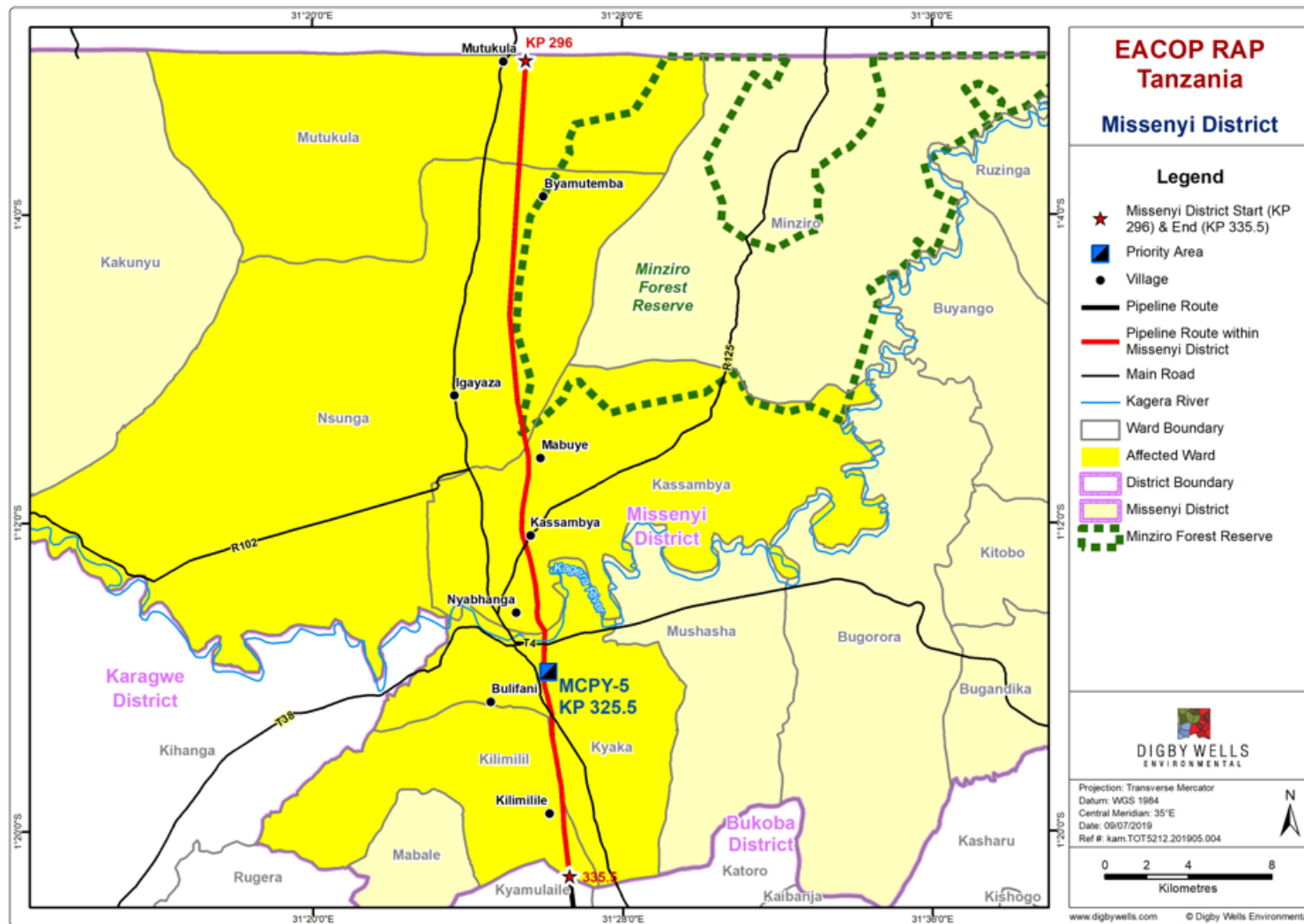


Figure 2-2: Location of Pipeline in Missenyi District, Kagera Region

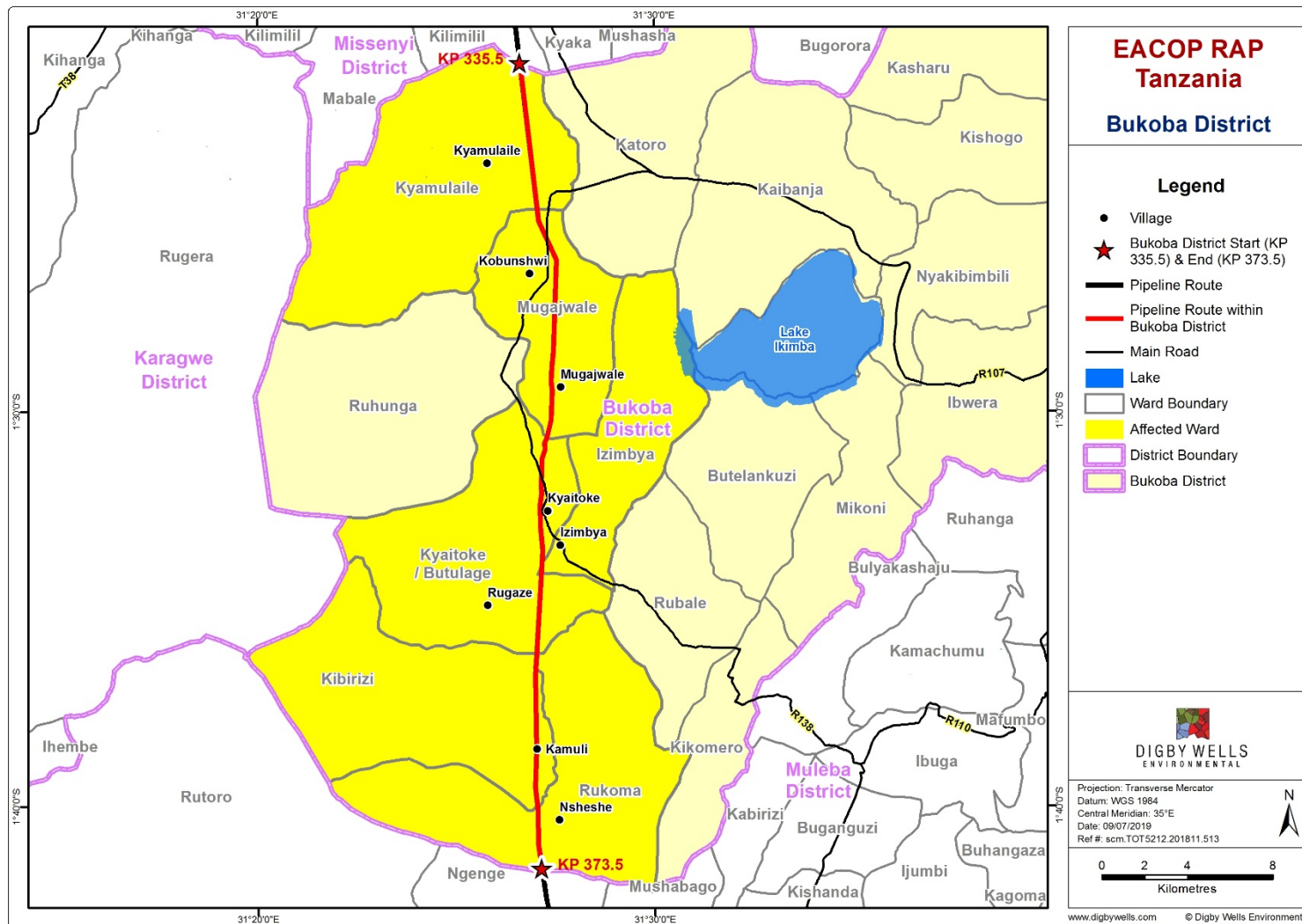


Figure 2-3: Location of Pipeline in Bukoba District, Kagera Region

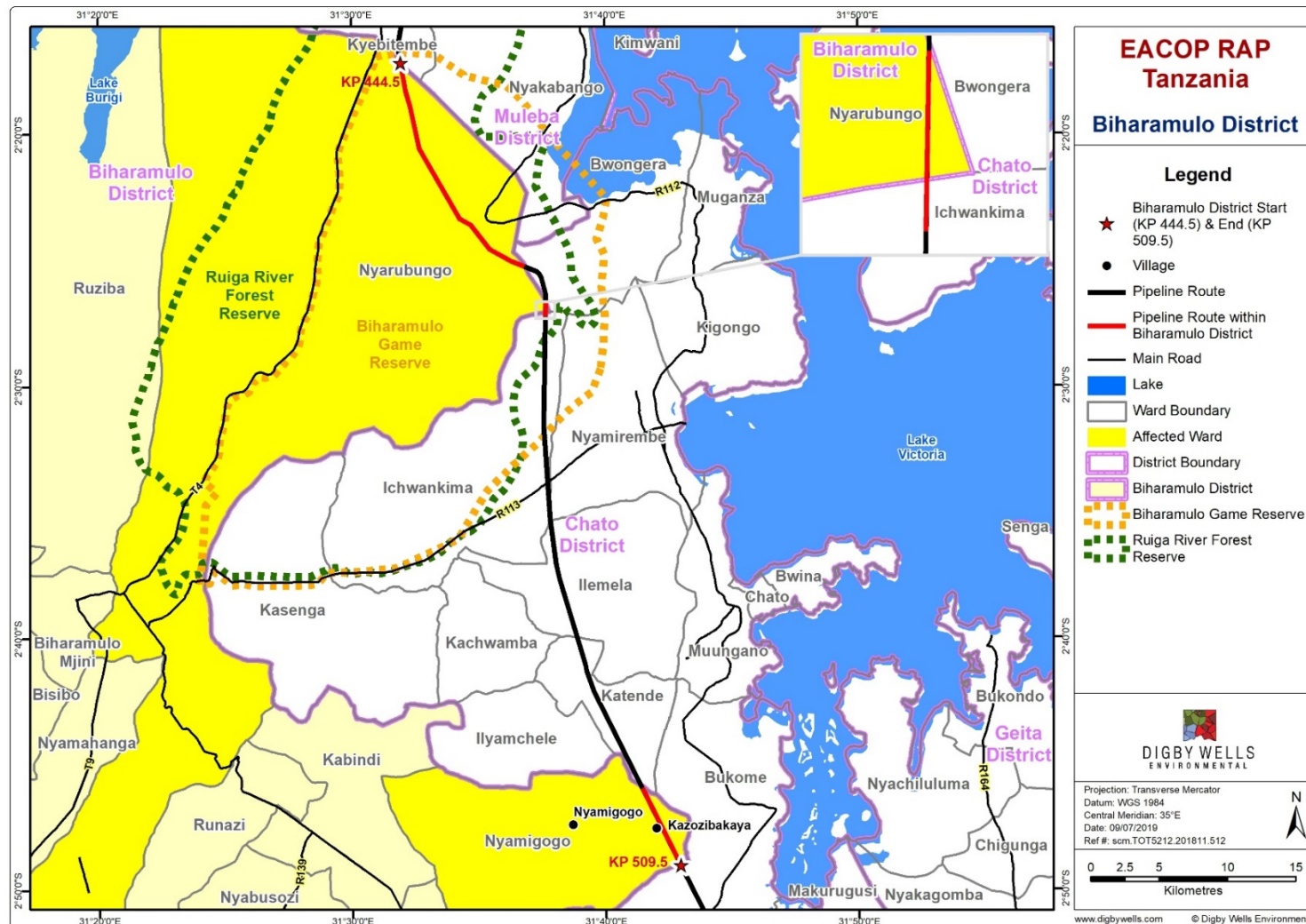


Figure 2-5: Location of Pipeline in Biharamulo District, Kagera Region

2.2.3 Land Context

This section of the pipeline corridor traverses three (3) land types being:

- Village Land;
- General Land (limited); and
- Reserved Land associated with the Game Reserve and Forest Reserves⁴⁹ and specific infrastructure crossings of the pipeline corridor (e.g. roads and powerlines).

Village Land: The affected land in the villages is predominantly under unregistered customary tenure and used for agriculture. The intention, subsequent to acquiring the Village Land affected by the pipeline corridor and AGIs, is that the Village Land will be converted to General Land and leased to the Project. The Project affects 447 land parcels in Missenyi District, 466 in Bukoba District, 1,219 in Muleba District and 40 in Biharamulo District. Tenants are present on 275 of these 2,172 land parcels through various types of agreements with the landholders.

Schools: The pipeline corridor traverse land used for agricultural production and sport recreation (football field) by Kagera Secondary School. No structures are affected.

Minziro Nature Forest Reserve: MNFR is managed by TFS, is situated on the northern border of Tanzania with Uganda. Only a short section of the FR is traversed by the pipeline corridor (240m). The reserve consists of a mosaic of Guinea–Congo lowland forest, grassland and wetland ecosystems. Minziro is threatened by the impacts of the collection of threatened tree species, illegal logging, alien invasive plants and an extensive network of footpaths used by pedestrians, bicycles and motorcycles. The grasslands are under pressure from the regular burning and cattle grazing activities conducted by the sugar cane farmers adjacent to the Reserve.

Ruiga River Forest Reserve: The Ruiga River FR is managed by TFS. The FR landscape traversed by the pipeline is characterized by an undulating habitat comprising of forest, bushland, grassland and wetlands with small areas of old growth woodland on several ridges. A significant portion of the corridor through Ruiga River FR, has though been modified by human activity, including agriculture.

Biharamulo Game Reserve: Biharamulo Game Reserve is under TAWA management. It is part of the Burigi-Biharamulo protected area landscape⁵⁰. This site is characterized by a series of north–south ridges, separated by drainage lines and rivers flowing north. The vegetation is predominantly miombo woodland, with grassland slopes and, in the steeper valleys and gullies, remnants of Guinea–Congo forest.

⁴⁹ The intention is the GR and FR land affected will be converted by the GoT into General Land and leased to the Project.

⁵⁰ The Burigi-Biharamulo protected area complex is in the process of becoming a National Park but is not yet gazetted.

Infrastructure Crossings:

- The pipeline corridor within the Missenyi District will cross ten roads (three (3) under the jurisdiction of TANROADS and seven (7) under the jurisdiction of TARURA) and the pipeline will also cross five (5) powerlines in this district;
- In Bukoba District, the pipeline corridor crosses 11 roads (one under the jurisdiction of TANROADS and 10 under the jurisdiction of TARURA) and the pipeline will also cross four (4) powerlines in this district;
- The pipeline corridor within the Muleba District will cross 11 roads (two (2) under the jurisdiction of TANROADS and nine (9) under the jurisdiction of TARURA) and the pipeline will also cross four (4) powerlines in this district; and
- At the time of the surveys the pipeline corridor in Biharamulo District did not cross any roads or powerlines.

These crossings (and associated reserves and wayleaves) will not be acquired. They will remain under the jurisdiction of the relevant Agencies (e.g. TANROADS, TARURA, TANESCO, TRC, etc.).

Community Tracks, Cattle Tracks, Footpaths, Streams and Other Crossings⁵¹:

- The pipeline corridor in Missenyi District will cross 24 village tracks and one (1) cattle track and it will cross the Kagera River;
- In Bukoba District, the pipeline corridor will cross 10 village tracks, one (1) cattle track, one (1) river, six (6) streams and one (1) swamp;
- In Muleba District, the pipeline corridor will cross 29 village tracks, five (5) cattle tracks, one (1) stream and one (1) swamp; and
- Five (5) tracks in Biharamulo District will be crossed.

2.3 Activities to Avoid or Minimize Displacement

International good practice requires that displacement be avoided or minimized wherever feasible through the assessment of alternative Project and engineering designs and the application of various criteria.

Several alternative pipeline routes were identified during the early stages of the development of the Project. The routing process began with the identification of regional areas of interest. This was followed by numerous screening studies to evaluate environmental, social, geo-hazards, constructability and terrain (including river crossings and slopes) constraints for pipeline routing at a broad scale.

⁵¹Tracks range from one (1) to two (2) meters in width and have no associated reserves and are utilized by people; and cattle tracks are up to three (3) meters in width and utilized by community and livestock and also have no associated reserves.

This identification process culminated in the selection of eleven 50 km wide corridor combinations for more detailed evaluation. Secondary information was used to assess the potential corridors using a geographic information system (GIS) and three (3) corridor options were identified for further evaluation, two (2) through Kenya (northern and southern corridors) and one (1) through Tanzania.

Using higher-resolution satellite imagery the corridors were refined through further analysis of the constraints identified above. Following this work, the Uganda-Tanzania route was selected. Subsequently, the route corridor was reduced to two (2) kilometers in width in 2016 and 2017 to 100 m wide. During 2018 the route corridor was reduced to a 30 m wide corridor within which, the construction and operational pipeline corridor will be located.

In the site selection process of these sites for these sites technical, environmental, socio-economic and cultural heritage criteria were considered including the following overriding requirements to:

- Minimize land acquisition and physical displacement specifically;
- Minimize distances from the main road network where applicable;
- Avoid populated areas and nationally protected areas of biodiversity value; and
- Take cognizance of the terrain type and topography.

Further details on the pipeline route selection and minimization of impacts are detailed in the ESIA⁵².

The Project is continuing to review the findings of the land acquisition, socio-economic household surveys and SELI surveys alongside the design to identify locations where physical and economic displacement impacts could be further avoided, reduced and/or minimised. This is an ongoing process and is being further informed by the engagement programme with PAPs, PACs and other stakeholders.

⁵² East African Crude Oil Pipeline ESIA, 2019.

3 LEGAL AND POLICY CONTEXT

This section draws from the legal context described in the Resettlement Policy Framework (RPF⁵³), which is applicable to all Project RAPs and summarizes the legislative and policy requirements that the Project must meet to acquire land, compensate for assets and complete resettlement, including:

- Relevant Tanzanian legislation, regulations and policy (Section 3.1);
- Corporate standards of the Upstream Partners (Section 3.2);
- Inter-governmental Agreement (IGA) and (Section 3.3);
- The applicable international financing standards (Section 3.4) adopted by the Project in particular:
 - The Equator Principles (EPs);
 - IFC PS1 (Assessment and Management of Environmental and Social Risks and Impacts);
 - IFC PS5 (Land Acquisition and Involuntary Resettlement);
 - IFC PS7 (Indigenous Peoples);
 - IFC PS8 (Cultural Heritage);
 - The applicable international conventions, specifically, the International Labor Organization (ILO)'s C169 (Indigenous and Tribal People's Convention), the African Commission on Human and Peoples' Rights (ACHPR); and the United Nations (UN) Declaration on the Rights of Indigenous Peoples; and
 - A gap analysis of national legislation and international financing standards and a way forward approach to address any gaps identified (Section 3.5).

3.1 Summary of Tanzanian Regulatory Framework

Tanzania has a range of laws and policies related to categories of land, land tenure, land acquisition, compensation and resettlement. Under Tanzanian Law, land is categorized as follows:

- **Reserved Land:** Land set aside for special purposes including wildlife reserves, forest reserves, marine parks, road reserves and land reserved for public utilities and highways. Specific legal regimes govern these lands under the laws used to establish the various forms of Reserved Land such as the Forest Act, National Parks Act, Wildlife Conservation Act, and Land Acquisition Act;

⁵³ A detailed regulatory framework can be found in Chapter 3 and Appendix A of the EACOP RPF (September 2018).

- **Village Land:** Includes all land inside the boundaries of registered villages, where the VDCs and Village Assemblies are given powers to manage land. The Village Land Act (1999 as amended from time to time) specifies how this is to be achieved; and
- **General Land:** This is defined in The Land Act, 1999 as "...all public land which is not Reserved Land or Village Land and includes unoccupied or unused village land" and is managed by the Commissioner for Lands.

The land affected in the Kagera Region is predominantly Village Land and Reserved Land.

The key legislation for land acquisition and compensation in Tanzania is listed below and discussed in detail in the RPF⁵⁴:

Overarching Laws and Guidance:

- Constitution of the United Republic of Tanzania, 1977;
- The National Land Policy, 1997; and
- Petroleum Act No. 8, 2015.

Other Relevant Acts and Regulations:

- The Land Act, 1999, Cap 113 R.E. 2018 (as amended from time to time);
- The Land Acquisition Act, 1967, Cap 118 R.E. 2018 (as amended from time to time);
- The Village Land Act, 1999, Cap 114 R.E. 2018 (as amended from time to time);
- The Village Land Regulations, 2001;
- The Graves (Removal) Act, 1969;
- The Antiquities Act, 1964, and Antiquities (Amendment) Act, 1979;
- The Land Disputes Courts Act, 2002;
- The Valuation and Valuers Registration Act, 2016;
- The Valuation and Valuers (General) Regulations, 2018;
- The Forest Act, 2002;
- The Roads Management Regulations, 2009;
- The National Parks Act, 2002;
- The Wildlife Conservation Act, 2013;
- The Marine Parks and Reserves Act, 1994;
- The Urban Planning Act, 2007;

⁵⁴ East African Crude Oil Pipeline – Resettlement Policy Framework (RPF), 2018

- The Water Resources Management Act, 2009;
- The Environmental Management Act, 2004;
- The Mining Act, 2017;
- The Road Act, 2007; and
- The Electricity Act, 2008.

Other Relevant Policies:

- The National Human Settlements Development Policy, 2000;
- Forest Policy, 1998;
- Water Policy, 2002;
- Agricultural and Livestock Policy, 1997; and
- Tanzania Women and Gender Policy, 2000.

3.2 Corporate Environmental and Social Commitments

The Upstream Partners each have corporate policies that include Environment, Health and Safety policies, Ethics Charters, commitments to the protection of biodiversity and strategies for operating in sensitive environments. The relevant social commitments, including stakeholder engagement, are summarized for each Partner in the table below.

In the absence of EACOP Project specific standards, and in advance of the Pipeline Company developing its standards, EACOP is applying some of Total SA standards to the Project including:

- Code of Conduct;
- HSE Charter;
- Security Charter;
- Charter of Principles and Guidelines on Indigenous and Tribal Peoples;
- Business Integrity Guide; and
- Human Rights Guide.

Summaries of the three (3) Partners' commitments to social responsibility are presented in Table 3-1.

Table 3-1: Project Partners' Commitments to Social Responsibility

Company	Policies
Total E&P Uganda B.V. (TEPU).	TEPU commits, among others, to: <ul style="list-style-type: none"> • Developing transparent, constructive relationships with all of its stakeholders; • Reducing negative socio-economic impacts related to its operations; • Participating in the economic diversification of host communities and countries by supporting local initiatives; • Contributing to human development by emphasizing education and the

Company	Policies
	<p>strengthening of local skills and capacities; and</p> <ul style="list-style-type: none"> • Enhancing the value of the historical, natural and cultural heritage of local communities. <p>In their HSE Charter, Company commits itself to comply with applicable Tanzanian laws and regulations, international standards, as well as Total Group policies in the fields of HSE. In matters of safety, health, environment and quality, Company further adopts a constructive attitude based on open dialogue with stakeholders and outside parties. Through its social commitment, it focuses on developing its activities in harmony with the neighboring communities. In its Ethics Charter, Company commits to contributing to the social and economic development of the countries in which it operates, in compliance with local legislation and regulation. It is committed to protecting the environment and respecting local cultures.</p>
CNOOC Uganda Limited (CUL)	<p>CUL, in its social policies, is committed to contributing to the economic development of the country and ensuring that the communities where CUL operates benefit from their operations. CUL will operate in compliance with Tanzanian laws and regulations and pursue high standards of business ethics and corporate governance and implement advanced standards and industry best practice. It is committed to pursuing a win-win relationship with stakeholders, and to respect the rights and interests of stakeholders, by supporting local communities in the development of education, and contributing to poverty alleviation, among others.</p>
Tullow Uganda Operations Pty Ltd (TUOP)	<p>In its Environment and Social Performance Standard, TUOP states that it will comply with the requirements of all applicable host country laws and regulations and apply their Standard where their requirements are more stringent than host country laws. The Standard requires that a robust stakeholder engagement process is followed, which is well-planned and coordinated, including the identification of potential stakeholders and the participation of project impacted people to discuss and contribute to project design, scope, impacts and mitigation measures prior to the start of project activities.</p> <p>In its policy statement on human rights, TUOP commits to human rights due diligence from the start of a potential project and to actively engage employees and contractors with appropriate cultural awareness training. TUOP will undertake all its operations in conformity with the Voluntary Principles on Security and Human Rights (VPSHR).</p>

3.3 Inter-Governmental Agreement

The IGA was signed by the Governments of Uganda and Tanzania on 26th May 2017. Within the IGA, Article 3 establishes the land rights framework. This framework addresses:

- Fair, transparent, legally enforceable and clear terms in favor of the Project;
- Availability of land rights and integrity of the pipeline system including;
 - Clearly identifiable, registrable title;
 - Free from third party encumbrances, rights or claims;
 - Strongest available title (or for temporary land, an appropriate title / right);
 - Duration for the entirety of the Project (or for temporary land, as long as needed by the Project);
 - Uninhibited implementation of the Project;
 - The enabling of full ownership of all Project facilities;
 - IFIs' right to legal, valid and enforceable first priority security; and
- Compliance with Environmental Health, Safety and Security (EHSS) and Human Rights Standards at a national and international level.

In comments received from the GoT on the RPF, the GoT noted ‘...the Government has confirmed to the investors that land taking will be based on the perspective of local and International Standards (reference is made to Article 3 of the IGA)’.

The HGAs for the Project between the Upstream Partners and the governments will follow on from the IGA and will cover, in their remit, agreement over land rights. The HGA is currently under development and discussion between the Upstream Partners and the GoT is yet to be signed. However, the Project will adopt the IGA principles stated, and these will be reflected in the processes undertaken to develop the RAP including socio-economic and asset surveys, valuation methods and the determination of cash and in-kind compensation.

3.4 International Guidance and Standards

3.4.1 Equator Principles

The Equator Principles are a risk management tool adopted by numerous financial institutions in 37 countries to identify, assess and manage environmental and social risks. The Equator Principles are largely based on the IFC’s PSs with some additional requirements for lenders who have adopted the Equator Principles. As the Project may be seeking funding from Equator Principles financial institutions, the process for land acquisition, compensation and resettlement must recognize the applicable international standards within the Equator Principles.

3.4.2 International Finance Corporation Performance Standards (2012)

The IFC, a member of the World Bank Group, has adopted a suite of PSs on social and environmental sustainability. The IFC applies these PSs to manage project-related social and environmental risks and impacts, and to enhance development opportunities in its private sector financing. The specific PSs considered applicable to the RAPs are summarized below:

Performance Standard 1: Assessment and Management of Environmental and Social Risks and Impacts

PS1 establishes the importance of:

- An integrated assessment to identify the environmental and social impacts, risks, and opportunities of projects;
- Effective community engagement through disclosure of project-related information and consultation with local communities on matters that directly affect them; and
- The client’s management of environmental and social performance throughout the life of the project.

The specific objectives of PS1 are:

- To identify and assess social and environmental impacts, both adverse and beneficial, in the Project’s area of influence;

- To avoid, or where avoidance is not possible, minimize, mitigate, or compensate for adverse impacts on workers, affected communities, and the environment;
- To ensure that affected communities are appropriately engaged on issues that could potentially affect them; and
- To promote improved social and environmental performance of companies through the effective use of management systems.

Performance Standard 5: Land Acquisition and Involuntary Resettlement

The Project will require the involuntary resettlement of all households and assets located within the Project footprints thereby making PS5 applicable. The main objectives of PS5 are:

- To avoid, and when avoidance is not possible, minimize displacement by exploring alternative project designs;
- To avoid forced eviction;
- To anticipate and avoid, or where avoidance is not possible, minimize adverse social and economic impacts from land acquisition and / or restrictions on land use by, (i) providing compensation for loss of assets at replacement cost⁵⁵ and (ii) ensuring that all resettlement activities are implemented with appropriate disclosure of information, consultation, and the informed participation of those affected;
- To improve, or restore, the livelihoods and standards of living of displaced persons; and
- To improve living conditions among physically displaced persons through the provision of adequate housing with security of tenure⁵⁶ at resettlement sites.

According to IFC PS5, displaced persons may be classified as persons:

- Who have formal legal rights to the land or assets they occupy or use;
- Who do not have formal legal rights to land or assets, but have a claim to land that is recognized or recognizable under national law; or
- Who have no recognizable legal right or claim to the land or assets they use / occupy.

PS5 also includes the following requirements:

⁵⁵ Replacement cost is defined as the market value of the assets plus transaction costs. In applying this method of valuation, depreciation of structures and assets should not be taken into account. Market value is defined as the value required to allow Project Affected Communities (PAC) and persons to replace lost assets with assets of similar value. The valuation method for determining replacement cost should be documented and included in applicable Resettlement and / or Livelihoods Restoration Plan (LRP).

⁵⁶ Security of tenure means that resettled individuals or communities are resettled to a site that they can legally occupy and where they are protected from the risk of eviction.

- Provide opportunities to displaced people to derive appropriate development benefits from the project; and
- Where land is collectively owned, land-based compensation should be offered, where possible.

Involuntary resettlement refers both to physical displacement (resettlement or loss of shelter) and economic displacement (loss of assets, or access to assets, that leads to loss of income sources and / or other means of livelihood), as a result of project-related land acquisition and / or restrictions on land use. Resettlement is considered involuntary when affected persons or communities do not have the right to refuse land acquisition and restrictions on land use that result in physical or economic displacement. This occurs in cases of lawful expropriation, or restrictions on land use, or in negotiated settlements in which the buyer / developer can resort to expropriation or impose legal restrictions on land use if negotiations with the seller fail⁵⁷.

PS5 applies to all physical and / or economic displacement resulting from the following types of land-related transactions:

- Land rights, or land use rights, acquired through expropriation or other compulsory procedures in accordance with the legal system of the host country;
- Land rights, or land use rights, acquired through negotiated settlements with property owners or those with legal rights to the land if failure to reach a negotiated settlement would have resulted in expropriation or other compulsory procedures;
- Project situations where involuntary restrictions on land use and existing access to natural resources cause a community, or groups within a community, to lose access to resource usage where they have traditional or recognizable usage rights;
- Certain Project situations requiring evictions of people occupying land without formal, traditional, or recognizable usage rights; and
- Restriction on access to land or use of other resources including communal property and natural resources.

When displacement cannot be avoided, the project sponsor will offer displaced persons and communities' compensation for the loss of all assets at full replacement cost, as well as other assistance as provided in PS5, to help them improve or restore their standards of living and livelihoods. Compensation standards shall be transparent and applied consistently to all the communities and persons affected by the displacement.

Replacement cost is defined as the market value of affected assets plus transaction costs. In applying this method of valuation, depreciation of structures and assets should not be taken

⁵⁷ IFC PS5 does not apply to resettlement resulting from voluntary land transactions (i.e., market transactions in which the seller is not obliged to sell, and the buyer cannot resort to expropriation or other compulsory procedures sanctioned by the legal system of the host country if negotiations fail).

into account. Market value is defined as the value that is required to enable affected persons and communities to replace lost assets with new assets of similar value or utility. Security of tenure must be provided at the resettlement site, meaning that resettled individuals or communities are resettled to a site that they can legally occupy without the risk of eviction.

According to IFC PS5, preference should be given to land-based resettlement strategies for displaced persons whose livelihoods are land-based. Strategies may include resettlement on public land with the agreement of the government, or on private land acquired or purchased for resettlement. Whenever replacement land is offered, it should provide for land that is at least equivalent to that of the old site.

Where physical displacement occurs, PS5 further requires that a RAP shall be developed and implemented. The RAP must provide a comprehensive action plan for addressing resettlement impacts. It should describe the procedures and activities that will be taken to mitigate adverse project impacts, compensate for all losses, and provide development benefits to those who will be resettled or displaced as a result of the project. The project sponsor shall be fully responsible for the resettlement process.

In order to comply with the above requirements, the project sponsor will carry out a census with appropriate socio-economic baseline data to identify all persons who will be displaced by the project, and to determine who will be eligible for compensation and / or resettlement assistance and to discourage the inflow of people who are ineligible for these. A cut-off date for eligibility under the proposed project should also be established. Information on the cut-off date shall be well documented and disseminated throughout the project area.

PS5 requires that the RAP is disclosed to the relevant authorities and affected parties prior to implementing resettlement. Provision of compensation and restoration of livelihoods of those affected by the project shall be ensured prior to any actual resettlement. Possession of land for project activities should take place only after compensation has been paid, or alternatively, if suitable guarantees of compensation have been made to the affected parties' satisfaction. Replacement housing and related public infrastructure and services and moving allowances must be provided to affected persons in accordance with the RAP provisions.

PS5 further requires that particular attention be given to the needs of vulnerable persons and groups. These are defined as those below a defined poverty line, the landless, the elderly, women and children, indigenous groups and ethnic minorities, the disabled, orphans, and otherwise disadvantaged persons. In particular, the RAP must provide:

- Additional targeted assistance (for example credit facilities, training and employment) and opportunities to restore, and preferably improve, their income-earning capacity, production levels and standards of living to displaced persons whose livelihoods or income levels are adversely affected; and
- Transitional support to economically displaced persons where necessary, based on a reasonable estimate of time required to restore income-earning capacity, production levels, and standards of living.

Performance Standard 7: Indigenous Peoples

Many Indigenous Peoples' (IPs) cultures and identities are inextricably linked to the lands on which they live and the natural resources on which they depend. In many cases, their cultures, identities, traditional knowledge, and oral histories are connected to, and maintained through the use of, and through relationships with, these lands and natural resources; thus, project impacts on lands, forests, water, wildlife, and other natural resources may affect their institutions, livelihoods, economic development, and their ability to maintain and develop their identities and cultures. PS7 sets out specific requirements when projects affect these IPs and relationships.

The applicability of PS7 should be established during a project's environmental and social risks and impacts identification process.

The specific objectives of PS7 are:

- To ensure that the development process fosters full respect for the human rights, dignity, aspirations, culture, and natural resource-based livelihoods of IPs;
- To anticipate and avoid adverse impacts of projects on communities of IPs, or when avoidance is not possible, to minimize and / or compensate for such impacts;
- To promote sustainable development benefits and opportunities for IPs in a culturally appropriate manner;
- To establish and maintain an ongoing relationship based on Informed Consultation and Participation (ICP) with the IPs affected by a project throughout the project's lifecycle;
- To ensure the Free, Prior and Informed Consent (FPIC) of the Affected Communities of IPs when the circumstances described in the Performance Standard are present; and
- To respect and preserve the culture, knowledge, and practices of IPs.

This PS is relevant for the approach to resettlement on the Project and is described here. One (1) PAH from the Barabaig ethnic group during the socio-economic survey was registered in Missenyi District and this PAH will be monitored for vulnerability to livelihood restoration and the ability to adapt to changed circumstances.

Performance Standard 8: Cultural Heritage

PS 8 recognizes the importance of cultural heritage for current and future generations. The specific objectives of PS8 are to:

- To protect cultural heritage from the adverse impacts of project activities and support its preservation; and
- To promote the equitable sharing of benefits from the use of cultural heritage.

In the selection of the chosen pipeline route, the location and proximity to culturally sensitive and potentially sensitive sites were considered. More detailed identification and assessment of potentially affected sites have also been undertaken in the Project ESIA⁵⁸ as well as monitoring undertaken during the geophysical and geotechnical surveys. The protection and management of known and chance finds during construction will be addressed through construction management plans, including site monitoring and management during construction, and use of the Project's Chance Finds Procedure. In the Kagera Region 163 graves were identified within the corridor and PS-3 during the valuation process these graves will be removed and reinterred in accordance with the Graves (Removal) Act, 1969.

Two spiritual sites were identified during the RAP surveys in the Kyaitoke Ward in Bukoba District. Land and assets (i.e. tree) associated with these sites has been valued. Impacts on affected spiritual sites will be managed by the Project under the Cultural Heritage Management Plan, including liaison with communities over supporting ceremonies etc.

3.4.3 Human Rights Considerations

As set out in the IGA framework, the Project has agreed to address Human Rights Standards at a national and international level. The UN norms acknowledge the universality, indivisibility, interdependence, and interrelatedness of human rights, including the right to development, which entitles every person to participate in, contribute to and enjoy economic, social, cultural and political development in which human rights and fundamental freedoms can be realized.

The protection of basic human rights is primarily the responsibility of the State. However, in terms of international good practice, private companies are required to respect human rights and avoid infringing on the human rights of others. The United Nations Global Compact (UNGC) initiative challenges businesses to embrace and enact basic principles with respect to human rights. The UN Guiding Principles on Business and Human Rights (2011) set out the corporate responsibility to respect human rights; avoid, prevent and mitigate adverse impacts; and establish operational level grievance mechanisms for individuals or communities who may be adversely impacted, in order to facilitate remediation.

The IFC PSs provide further insight into how initiatives like the UNGC can improve the human rights performance of project sponsors. The IFC Good Practice Note on the Design of Grievance Mechanisms (Guidance Note 7 of 2009), establishes that credible and effective grievance mechanisms are part of a broader framework for companies to address human rights issues in their business operations.

The IFC PSs furthermore require that the dignity, human rights and welfare of communities affected by development projects are protected.

The Project has commissioned a human rights impact assessment, which reviewed potential human rights impacts related to resettlement and potential vulnerable groups, including

⁵⁸ East African Crude Oil Pipeline ESIA, 2019 Environmental and Social Impact Assessment

women and vulnerable ethnic groups that may self-identify as IPs. Further human rights review and guidance are being implemented to further assess the potential impacts that are relevant to the RAP in Kagera Region and other areas.

3.5 Gap Analysis between Tanzanian Legislation and Performance Standard 5

Table 3-2 provides an overview of the Tanzanian legislative requirements and IFC PS5 with regard to resettlement and compensation. Any significant gaps between the two (2) sets of requirements are identified and a way forward is outlined to be adopted during the resettlement planning and implementation.

This RAP presents an updated gap analysis to the one presented in the RPF. The agreed way forward for all the gaps has been adopted in the RAP planning and associated activities.

This RAP confirms that, where a discrepancy exists between IFI requirements (e.g. IFC PS5) and national legislation, the more stringent of the two (2) will be used and / or applied.

Table 3-2: Comparison of Relevant Tanzanian Legislation and IFC PS5

Tanzanian Legislation	IFC PS5	Way Forward
Valuation of Land and Assets		
<ul style="list-style-type: none"> Market rates for land; Replacement cost for structures; Rates for crops and trees based on extensive research and published by the Chief Valuer (CV) (valid for up to five (5) years); and Crops in abandoned field to receive 50% of designated market value. 	<ul style="list-style-type: none"> Replacement cost not taking depreciation into account; All affected land eligible for compensation; Rates to be current; and Transaction costs to be made over as compensation. 	<p>Valuation Reports and Compensation Schedules shall introduce:</p> <ul style="list-style-type: none"> Tanzanian Entitlements (to be approved by CV) (also referred to as Part I); Additional Project-specific entitlements and / or compensation options to meet international financing standards (for the information of the CV) (also referred to as Part II); and Affected persons will be informed of additional entitlements offered by the Project. <p>Valuation Methodology:</p> <ul style="list-style-type: none"> Rates agreed with CV; Full replacement cost without taking depreciation into account; and Valuation of entitlements under Tanzanian law presented in a separate report from entitlements to meet international financing standards of the Compensation Schedules.⁵⁹

⁵⁹ It should be noted that, the valuation conducted according to Tanzanian law outlined in the Valuation Reports for Kagera Region are to be approved by the CV of the GoT as per Regulation 11 of the Valuation and Valuers (General) Regulations, 2018. The valuation for additional entitlements and compensation options under IFI standards as defined in IFC PS5 on Land Acquisition and Involuntary Resettlement is presented separately. Specific measures to meet these requirements in the context of this Project were also set out in the RPF developed for the overall Project and are presented in this RAP in more detail. It is understood that the additional entitlements required to meet IFC PS5 do not require the approval of the CV of the GoT but will nevertheless be shared with the CV.

Socio-Economic Surveys		
<ul style="list-style-type: none"> • Not required. 	<ul style="list-style-type: none"> • Requires socio-economic survey. 	<ul style="list-style-type: none"> • Project will undertake socio-economic surveys of Project Affected Households (PAHs)⁶⁰; and • Data will be used to inform the livelihood restoration and in-kind compensation options⁶¹.
Cut-off Date for Eligibility		
<ul style="list-style-type: none"> • Cut-off date set as commencement of valuation. 	<ul style="list-style-type: none"> • Cut-off date to be established by Project. 	<ul style="list-style-type: none"> • Cut-off date triggered by valuation, in line with Tanzanian law.
Eligibility of PAP – without formal rights or claims to land / informal occupiers		
<ul style="list-style-type: none"> • Only people with recognized land use / owner rights (including customary) qualify for compensation; and • Informal occupiers do not qualify for compensation. 	<ul style="list-style-type: none"> • Informal occupiers compensated for improvements on land (i.e. for loss of assets other than land) present at the cut-off date for eligibility; • A choice of options to relocate them with security of tenure without the risk of facing forced eviction; and • Resettlement assistance to restore livelihoods. 	<ul style="list-style-type: none"> • Recognize and appropriately compensate PAPs with formal and informal land rights and those with no recognizable right or claim; • Not required to compensate those who encroach on the Project area after the cut-off date for eligibility; and • Compensation for PAPs not considered eligible under the Tanzanian legal requirements would be included within the separate Valuation Report and Compensation Schedules on additional entitlements for international financing standards (IFS).
In-kind Compensation Options and Resettlement Assistance		
<ul style="list-style-type: none"> • Provision of replacement land generally not offered. Regulations allow provision of a comparable plot of land or building(s); practice generally is cash⁶²; and • Range of support allowances including disturbance, transport and accommodation allowances, and loss of profits, for eligible PAPs. 	<ul style="list-style-type: none"> • Cash compensation for land-based livelihoods is considered appropriate where the land taken is a small fraction of the affected asset and the residual land is economically viable; • Otherwise, requires choice of replacement land / housing or cash or combination; and • Relocation support 	<ul style="list-style-type: none"> • Eligibility for in-kind compensation options will be related to significance of impacts on livelihoods: <ul style="list-style-type: none"> – Persons losing only a small fraction of their land (with the remainder being economically viable⁶³) receive cash compensation for that land; and – In cases of significant impact⁶⁴, offer eligible PAPs a choice between cash or replacement land / housing (i.e. in-kind compensation) or a combination of cash and in-kind compensation; and resettlement assistance. • VRs will distinguish between the standard

⁶⁰ Findings of socio-economic studies including living standards and the livelihoods of PACs are presented in Chapter 5. The outcomes of housing studies undertaken in relation to replacement housing design are outlined in Chapter 7;

⁶¹ Livelihood restoration and in-kind options to address IFC PS5.

⁶² The Land (Compensation Claims) Regulation 2010 allows, at the option of the government, provision of 'A plot of land of comparable quality, extent and productive potential to land lost; A building or buildings of comparable quality, extent and use to the building or buildings lost.' The provision of replacement land and / or housing is not generally provided in practice via this regulation; rather, Tanzanian RAPs reviewed offer this through application of international financing standards.

⁶³ Assessment of the economic viability of the remaining portions of land will include consideration of other unaffected land available to the PAP, as well as this land, is sufficiently productive to ensure livelihoods can be maintained or restored to at least pre-displacement levels.

⁶⁴ "Significant impact" comprises physical displacement as well as loss of all or most land available to the PAP.

	allowances such as for: disturbance, vulnerability, transportation and temporary accommodation.	Tanzanian entitlements of cash and the additional in-kind compensation options offered for international financing standards; and <ul style="list-style-type: none"> In-kind compensation options and additional resettlement assistance for IFS would be contained within (Part II) the additional entitlements for IFS VRs and Compensation Schedules.
Vulnerable Individuals and Groups		
<ul style="list-style-type: none"> No special support required for vulnerable groups. 	<ul style="list-style-type: none"> Additional attention and support measures to vulnerable groups. 	<ul style="list-style-type: none"> Identify vulnerable groups and provide special attention and support measures.
Timing of Compensation Payments		
<ul style="list-style-type: none"> Valuation valid for a 2-year period but payment within six (6) months of approval of VR by the CV, and if payment is delayed it is subject to interest. 	<ul style="list-style-type: none"> Payment prior to possession of land. 	<ul style="list-style-type: none"> Project responsible for payment of cash compensation and delivery of in-kind compensation entitlements and resettlement assistance; Compensation paid in line with Tanzanian law; Project would only seek land access after: <ul style="list-style-type: none"> Reasonable notice to vacate / yield possession has occurred (minimum of six (6) weeks); All cash compensation has been paid and eligible physically displaced PAPs have been offered and moved to permanent replacement housing⁶⁵ (where selected and eligible) while relevant other in-kind compensation / and resettlement assistance is in process; and Required land transfer, provision of ROO to TPDC, Project lease and other arrangements are in place with relevant GoT agency.
Livelihoods Restoration		
<ul style="list-style-type: none"> Does not generally require livelihood restoration support; and Regulations allow that compensation can include plants and seedlings; regular supplies of grain and other basic foodstuffs for a specified period⁶⁶. 	<ul style="list-style-type: none"> Requires livelihood 	<ul style="list-style-type: none"> Livelihood restoration entitlements committed to within the (Part II) Additional Entitlements for IFS VRs and Compensation Schedules and further detailed in the RAP as additional Project-specific entitlements to meet international financing requirements; and An LRP is presented in this RAP in Chapter 8, outlining the approach to livelihood restoration to be adopted during the resettlement process.

⁶⁵ The Project intends to construct replacement houses in a time frame that physically displaced PAPs affected by the pipeline corridor will move straight into replacement housing and will not need to be moved into temporary accommodation. However, there may be instances where this is required, such as where the PAPs elect to have a replacement dwellings structure constructed on their existing homestead and for safety reasons it is not considered appropriate for these households to remain living on the homestead during this construction. In such instances the Project will work closely with PAPs and relevant authorities to secure appropriate temporary accommodation and support the PAPs during this transition period.

⁶⁶ Compensation for Loss of Profits is provided for in The Valuation and Valuers Registration Act, 2016. Such compensation is viewed as a form of livelihood restoration support. Further, Section 10 Land (Compensation Claims) Regulations 2010 provide that compensation shall take the form of monetary compensation, but may also include the following: plants and seedlings; and regular supplies of grain and other basic foodstuffs for a specified period. Again, such compensation is viewed as a form of livelihood restoration support.

	restoration support.	
Land Acquisition and Resettlement Documentation		
<ul style="list-style-type: none"> • VRs required; • RAPs not required⁶⁷; and • National Environment Management Council (NEMC) request RAPs as part of Environmental Impact Assessment (EIA) submissions. 	<ul style="list-style-type: none"> • RAPs where there is physical displacement; • LRPs where there is only economic displacement; and • Required prior to taking possession of land. 	<ul style="list-style-type: none"> • VRs (structured in two reports as noted above). The (Part I) Valuation Report for compensation under Tanzanian law will be submitted for approval to the CV. The (Part II) Valuation Report for additional entitlements under IFS will be provided to the CV for information; • Project RAPs will be prepared by the Project and submitted for information and for a comments period to the relevant agencies in Tanzania⁶⁸; and • As required under international financing standards, RAPs will be publicly disclosed including on the EACOP Project website.
Disclosure, Consultation and Informed Participation		
<ul style="list-style-type: none"> • Some disclosure is required, including on compensation rates; • PAPs are given the opportunity to inspect compensation schedules following valuation; and • No negotiation of compensation options. 	<ul style="list-style-type: none"> • Disclosure of rates, entitlements, options and participation during resettlement phases; and • Negotiation on content of compensation package⁶⁹. 	<ul style="list-style-type: none"> • Disclosure of relevant information (including on rates and entitlements); • Entitlement Briefings in which PAPs' valuation and compensation options are explained and PAPs are given the opportunity to select preferred options; • Engagement and participation of affected persons, households and affected communities during resettlement phases; and • Allow negotiation about selection of compensation options, resettlement allowance and livelihood restoration options (in terms of cash and in-kind combinations).
Grievance Mechanisms		
<ul style="list-style-type: none"> • No requirement for a Project dispute resolution mechanism beyond those legal remedies 	<ul style="list-style-type: none"> • Establishment of dedicated, easily accessible, and no-cost grievance management mechanism. 	<ul style="list-style-type: none"> • Establish a dedicated grievance management mechanism, at no-cost to affected people; and • Complainants will still be able to seek legal remedies in accordance with the laws and regulations of Tanzania.
Monitoring and Evaluation		
<ul style="list-style-type: none"> • No monitoring and evaluation requirement. 	<ul style="list-style-type: none"> • Require monitoring and evaluation. 	<ul style="list-style-type: none"> • Conduct process and outcome monitoring during and upon completion of RAP implementation.

⁶⁷ Certain licenses include the condition for a relocation plan e.g. Mining Licenses.

⁶⁸ These may include ME, TPDC, MLHSD, NEMC (and relevant ministry) and other agencies as requested.

⁶⁹ Input from PAPs and PAHs on cash vs. in-kind or combination, available resettlement support options and livelihood restoration options.

4 LAND ACQUISITION AND RESETTLEMENT PROCESS

4.1 Introduction

This section describes the three-stage process (summarized in Table 4-1 and illustrated in Figure 4-1) that is being followed to complete land acquisition and resettlement:

Table 4-1: Three-stage Process to Complete Land Acquisition and Resettlement

Stage 1	Development of a Resettlement Policy Framework (RPF) (Described in Chapter 4, Section 4.2).
Stage 2	<p>Completion of Pre-Acquisition Activities also known as Resettlement Planning. (Described in Chapter 4, Section 4.3) including:</p> <ul style="list-style-type: none"> • Pipeline route selection; • Detailed surveys and valuations; • VRs and Compensation Schedules; • Socio-economic and livelihood investigation activities; • Replacement land and housing; and • RAPs.
Stage 3	<p>Completion of Acquisition and Granting of Rights also known as Resettlement Implementation. (Described in Chapter 11) including:</p> <ul style="list-style-type: none"> • Public purpose and conversion to General Land; • Compensation agreements; • Payment of compensation, relocation and implementation of livelihood restoration and assistance programs; • Land rights acquired by Government of Tanzania; and • Provision of compliant lease to Project for required land.

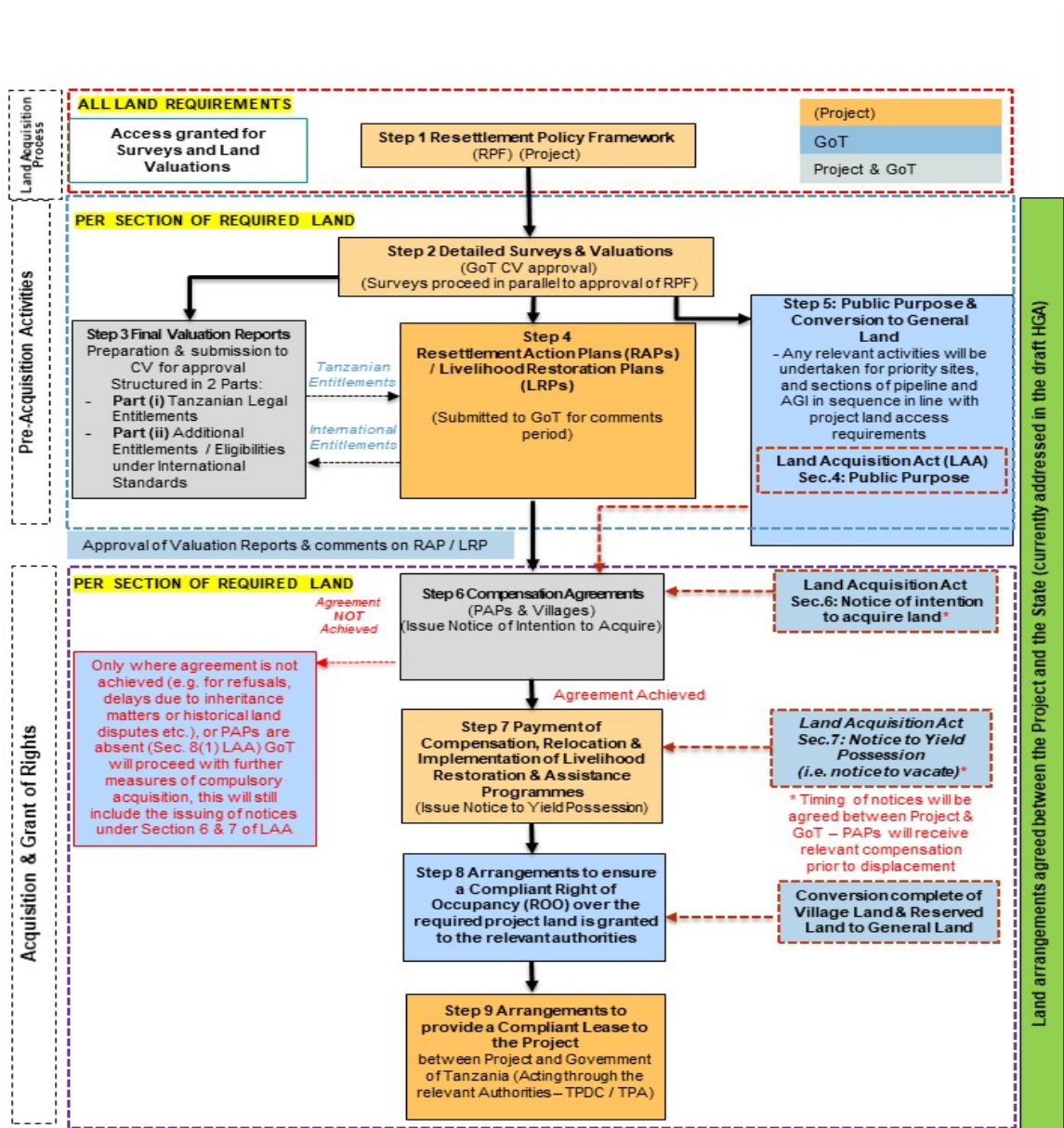


Figure 4-1: Land Acquisition Process⁷⁰

⁷⁰ All references to "State", "Government of Tanzania", "GoT" and / or the "Government" shall be construed as references to the State and / or to the appropriate State Authority, as applicable. All references to "Project" shall be construed as references to the appropriate Project vehicle, which until the full establishment of the Project Company, shall be TEAM B.V.

4.2 Stage 1: Development of the RPF

Due to the difference in size and timing of access to land that will be required, the Project decided to write nine (9) separate, but interlinked RAPs, one supplemental plan and associated VRs.

These include:

- The PA RAP (already completed and disclosed);
- One (1) RAP per regional administrative geographical area being Kagera, Geita, Shinyanga, Singida, Manyara, Tabora, Dodoma and Tanga;
- One Supplementary Plan for the MST site in Chongoleani, Tanga;
- Twelve (12) VRs for each district containing PAs to cover eligible assets under Tanzanian legislation and twelve (12) VRs to cover additional entitlements under IFS requirements (twenty-four (24) VRs in total for the PAs); and
- Twenty-three (23) VRs for eligible assets under Tanzanian legislation – one (1) for each administrative district council along the pipeline and twenty-three (23) for additional entitlements under IFS requirements (46 in total for the pipeline)⁷¹.

To guide the various components in terms of principles, approach and implementation arrangements in the land acquisition process and ensure consistency across the nine (9) individual RAPs an overarching RPF was developed.

The RPF defines the overarching principles for land access, compensation and resettlement planning, and is the precursor to the detailed RAPs and / or LRPs for individual Project components.

The RPF has been drafted, passed through a comments review period by the GoT and been finalized following receipt of the GoT comments. The RPF was publicly disclosed in October 2018.

4.3 Stage 2: Completion of Pre-Acquisition Activities

4.3.1 Pipeline Route Selection

The EACOP engineering team, working with additional EACOP discipline teams and contractors, was responsible for defining the corridor and AGIs footprints, including accesses and driveways, as well as the times at which land access to various footprints will be required.

⁷¹ These Valuation Reports cover all Project-affected land and assets within the 27 Administrative District Councils which comprise: One (1) City Council, four (4) Town Councils and 22 District Councils. Where applicable, city councils and town councils have been combined into one report

Criteria used for selecting the pipeline route included those listed in Table 4-2. Some criteria resulted in certain areas being strictly avoided for these sites (e.g. internationally protected areas, etc.). Consideration was also given to avoid as far as possible physical displacement and, where it was not avoidable, to minimize this (Section 2.3).

Although priority was given to avoidance of sensitive areas, in selecting the final route, consideration was also given to logistics and infrastructure requirements. Close proximity to roads, railways and bridges necessary to support the construction process and long-term operation of the pipeline were taken into account.

Table 4-2: Site Selection Criteria

Topic	Criteria:
Technical	<ul style="list-style-type: none"> • Steep slopes; • Wetlands (permanent and seasonal) and water bodies; • Flooding hazards; • Landslide hazards; • Karsts / Tunnels / Mines (settlement hazards); • Seismic zone with liquefaction risk and earthquake zone; • Geological features; and • Infill land and waste disposal sites, including those contaminated by disease, radioactivity or chemicals.
Environmental	<ul style="list-style-type: none"> • Internationally protected areas⁷² (these areas were excluded from consideration); • Nationally protected areas⁷³; • Internationally designated protected areas⁷⁴; • Internationally and nationally designated protected areas⁷⁵; • Critical habitats⁷⁶; and • Natural habitats⁷⁷.

⁷² These included Ramsar sites / United Nations Environmental, Social and Cultural Organization (UNESCO) World Heritage Sites.

⁷³ These included national parks, wildlife reserves, wildlife sanctuaries, forest reserves, community wildlife management areas and high biodiversity wilderness areas.

⁷⁴ These included International Union Conservation of Nature (IUCN), Category Ia, Ib and II.

⁷⁵ These included International Union Conservation of Nature (IUCN), Category III, IV, V and VI.

⁷⁶ Including: areas with high biodiversity value; habitat required for the survival of critically endangered or endangered species; areas having special significance for endemic or restricted-range species; sites critical for the survival of migratory species; areas supporting globally significant concentrations or numbers of individuals of congregator species; areas with unique assemblages of species or which are associated with key evolutionary processes or provide key ecosystem services; and areas having biodiversity of significant social, economic or cultural importance to local communities.

⁷⁷ Including: Undesignated forest / woodland areas, wetlands; land and water areas where the biological communities are formed largely by native plant and animal species, and where human activity has not essentially modified the area's primary ecological functions; and other notable biodiversity areas.

Topic	Criteria:
Socio-economic / cultural heritage	<ul style="list-style-type: none"> • Industrial areas (mines, factories, power plants) (no go); • Social and community infrastructure (including places of worship); • Right-of-way (RoW) of existing or planned linear facilities; • Transport infrastructure; • Settlements (urban area, town, village); • Grazing / grass land; • Crop land / cultivated land; • Trees / timber forest; • Cash crop (e.g. tea, coffee plantation, sisal, sugar cane, banana) shrub land; • Water points / sources / wells; • Cultural heritage sites; and • Tourism facilities / sites.

4.3.2 Detailed Surveys and Valuations

As part of the survey program (that also includes the valuation process) several activities were undertaken to ultimately inform the Missenyi, Bukoba, Muleba and Biharamulo (Kagera Region) VR's and this RAP. These activities were not necessarily undertaken sequentially, with some occurring in parallel, including:

- Preparation and planning including:
 - Questionnaires and Frequently Asked Questions (FAQs);
 - Training; and
 - Team structure.
- Execution of surveys and valuations including:
 - Sensitization (announcement of surveys, valuations and cut-off dates);
 - Land delineation and adjudication surveys that includes asset verification and inspection;
 - Asset valuation surveys;
 - Socio-economic surveys; and
 - Sharing of Compensation Schedules.

Preparation and Planning

Questionnaires and Frequently Asked Questions

Preparation for the surveys included the development of customized survey questionnaires and forms (Appendix A) which were then transferred to electronic tablets and used in the field to capture survey data.

A story board and a FAQs document were also developed to provide guidance to field teams in responding to stakeholder questions on the purpose, nature and survey process.

Training

The survey teams underwent intensive five (5) day training in Dar es Salaam in May 2018. Training covered the topics described in Table 4-3.

Table 4-3: Summary of Survey Team Training Topics

Training Topic	Sub-Topics
General.	<ul style="list-style-type: none"> • General protocols and procedures (e.g. grievance management, conduct, etc.); • Survey schedule; • Health and Safety; • Use of electronic tablet technology; and • Key messaging and storyboarding.
Community Sensitization.	<ul style="list-style-type: none"> • Content for presentation to authorities and PAPs; and • Procedures to announce cut-off date.
Land Delineation & Adjudication.	<ul style="list-style-type: none"> • Land delineation methodology, quality control and data management procedures; • Identification and registration of PAPs including the roles of neighbors, local government and leaders and numbering of assets; • Application of orphaned land criteria; and • PAP refusals and absenteeism.
Asset Valuation.	<ul style="list-style-type: none"> • Valuation methodology, quality control and data management procedures; • Valuation law; • Asset Survey Forms and Asset Inspection Procedures; • PAP refusals and absenteeism; and • Validation of preliminary valuation schedules.
Socio-Economic.	<ul style="list-style-type: none"> • Survey methodology, quality control and data management procedures; and • Socio-economic survey form.

DWC and the PPT worked with the ME and MLHHS to obtain approval to undertake the valuation surveys.

The survey plan, key messages shared with local-level stakeholders, and valuation approach, were presented and discussed with the GoT representatives, including the ME, TPDC, MLHHS and other GoT stakeholders, on an ongoing basis, at the Land and Resettlement Working Group (LARWG) meetings (see Chapter 10).

Team Structure

Each survey team consisted of only Tanzanian nationals and included the following resources:

- Group leader;
- Coordinator;
- Data management team leader;
- Data management support;
- Health and Safety operative;
- First aid providers;
- Stakeholder engagement (community sensitization) team including:

- Senior engagement resource; and
- Engagement assistant.
- Land delineation and adjudication group including:
 - Land surveyor; and
 - Assistant land surveyor.
- Asset valuation group including:
 - Senior valuer;
 - Valuer; and
 - Assistant valuer.
- Socio-economic group including:
 - Team leader;
 - Supervisor; and
 - Enumerators.

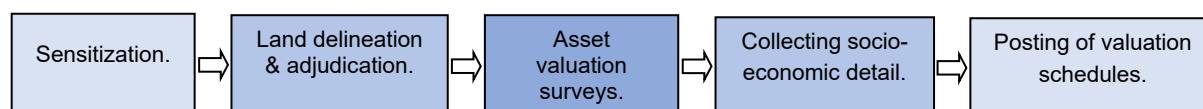
Each team was accompanied by a member of either ME, TPDC or MLHSD and an EACOP stakeholder engagement team member.

Establishment of Rates

Under the provisions of The Valuation and Valuers (General) Regulations, 2018, Whiteknights (Registered Valuers for the Project) undertook market research in the Kagera Region. The research aimed at establishing current or up-to-date market values and replacement costs of compensable items. Whiteknights prepared and submitted a Rates Report for the Kagera region (Whiteknights, 2018) to the CV for endorsement outlining the results of the research, including the rates established for the Project in the region. This is an important milestone required by the national regulations (The Valuation and Valuers (General) Regulations, 2018) to ensure that PAPs are paid the full replacement cost due to them.

Execution of Surveys

The surveys were mostly conducted in the following order:



Survey teams were accompanied by at least two (2) of the following local government officials: The district development officer, and representatives from the Village Development Council (VDC), or Village Executive Officer (VEO).

Sensitization

This step involved:

- Confirmation of survey plans and schedule with regional, district, ward and village authorities via notification letters and meetings;
- Conducting community awareness meetings in PACs to explain the nature, purpose and timing of the planned surveys;
- Announcing cut-off dates⁷⁸ to local authorities and households;
- Authorized District Land Officers (DLOs) (with support from the survey team) communicated the intent of the asset valuation survey and registration process, procedures involved; and
- PAPs⁷⁹ were identified and arrangements made to enable them to be present during survey activities.



Figure 4-2: Sensitization and Engagement Meetings in Kagera Region

The timing of the above actions for each village is set out in Table 4-4, which also includes key fieldwork and cut-off dates.

Table 4-4: Sensitization and Cut-Off dates for Villages in Missenyi, Bukoba, Muleba and Biharamulo Districts

Ward.	Village	Date of Sensitization Meetings	Valuation Cut-off Date
Missenyi			
Mutukula	Mutukula	16 th May 18	16 th May 18
Nsunga	Byamutemba	21 st May 18	21 st May 18
	Igayaza	21 th May 18	21 st May 18

⁷⁸ The cut-off date in Tanzania coincides with the start of the asset valuation process (which includes community sensitization). The cut-off date and its implications were communicated to affected households and local authorities.

⁷⁹ PAPs include owners and / or users of affected land, houses, economic trees, other improvements on land, crops and other assets.

Ward.	Village	Date of Sensitization Meetings	Valuation Cut-off Date
Kassambya	Mabuye	05 th June 18	05 th June 18
	Kassambya	30 th May 18	30 th May 18
	Nyabihanga	04 th June 18	04 th June 18
Kyaka	Bulifani	04 th June 18	04 th June 18
Kilimilile	Kilimilile	08 th June 18	08 th June 18
Bukoba			
Kyamulaile	Kyamulaile	17 th May 18	17 th May 18
Mugajwale	Kobunshwi	18 th June 18	19 th June 18
	Mugajwale	21 st May 18	24 th May 18
Kyaitoke	Kyaitoke	30 th May 18	01 st June 18
	Rugaze	31 st May 18	08 th June 18
Izimbya	Izimbya	04 th June 18	07 th June 18
Kibirizi	Kamuli	08 th June 18	08 th June 18
Rukoma	Nsheshe	17 th May 18	17 th May 18
Muleba			
Ngenge	Rwigembe	05 th June 18	05 th June 18
	Nyakanyasi	06 th June 18	06 th June 18
	Ngenge	07 th June 18	07 th June 18
	Kishuro	08 th June 18	08 th June 18
	Rukindo	25 th June 18	25 th June 18
Burungura	Kakoma	02 nd June 18	02 nd June 18
Mubunda	Kikagate	30 th May 18	30 th May 18
Bisheke	Milanda	11 th June 18	11 th June 18
Kasharunga	Kiteme	21 st May 18	21 st May 18
Karambi	Kiguzi	24 th May 18	24 th May 18
	Karambi	24 th May 18	24 th May 18
	Kanyamika	25 th May 18	25 th May 18
Kyebitembe	Kasindaga	29 th May 18	29 th May 18
Biharamulo			
Nyarubungo	Biharamulo Game Reserve (GR)	-	-
Nyamigogo	Nyamigogo	05 th June 18	06 th June 18
	Kasozibakaya	06 th June 18	06 th June 18

Land Delineation and Adjudication Surveys

This involved:

- Adjudication of land parcels;
- Recording the boundaries of affected land parcels as well as data on land users - in most cases this included the participation of neighbors to confirm their respective boundaries;
- Collecting data on each PAP and assigning a valuation number;
- Taking a photograph of each PAP where possible;

- In cases where land parcels partially overlapped with the Project footprint, information was collected to identify orphaned land⁸⁰ that will have to be acquired; and
- Issuance of a Land Form No. 69 signed by the DLO for the particular district.

The Land Delineation and Adjudication Survey groups were accompanied by at least two (2) of the following local government officials: The DLO, representatives of the VDC, the VEO and neighbors to confirm boundaries.



Figure 4-3: Land Delineation and Adjudication Surveys in Kagera Region

Asset Valuation Surveys

The asset valuation surveys were undertaken by Tanzanian valuers and included the following:

- Recording information on affected buildings and structures, businesses, land parcels, crops, economic trees and graves;
- Compiling an asset inventory for each PAP or tenant⁸¹ where relevant;
- Recording geographical coordinates of each asset, except trees, crops and land;
- Photographing buildings and other structures (see Figure 4-4);
- Completing sign-off of each complete asset inventory by the registered valuer, PAP and local authority representative;
- Issuing Land Valuation Form No. 3 to each PAP; and
- Recording communal assets (e.g. wells, places of worship, markets, etc.) and collecting sign off from the relevant village authorities.

⁸⁰Orphaned Land is unaffected land that, due to its size, shape, access and / or economic value, is no longer enough for its former use. Where the remnant of land is less than 0.5 acres outside a city, municipality or township the Tanzanian legislation defines it as being subject to acquisition in its entirety, alongside the rest of the land required.

⁸¹ Where a PAP owned or used assets (e.g. growing crops and trees) without accompanying land rights (e.g. customary ROO) a separate 'Tenant' asset survey was completed.

Asset valuation teams were accompanied by at least two (2) of the following local government officials: The District Valuer (DV), VDC representatives and the VEO.



Figure 4-4: Examples of Valuation numbers placed on dwellings and structures as part of the survey process.

Socio-Economic Surveys

These surveys involved the collection of demographic and socio-economic information⁸² about PAHs, including all PAPs, through interviews with an adult household member.

Posting of Valuation Asset Schedules

Immediately after the surveys, field teams posted the summary of contents of Valuation Form No. 3 in asset schedules i.e. inventories of all assets for each PAP that would be considered for compensation in each affected village.

4.3.3 Valuation Reports and Compensation Schedules

This section describes:

- Validation of assets;
- Compilation of VRs and Compensation Schedules;
- Disclosure of compensation schedules; and
- Sign-off, submission and verification of VRs.

Validation of Assets

The posting of asset schedules on village notice boards described above was followed by an asset validation exercise whereby PAPs were given an opportunity to express observations and / or concerns in respect of the valuation exercise and to point out any deficiencies and / or inconsistencies in the asset identification and capture. These were then addressed and corrected where needed, after which, assets were valued and compensation figures determined. The approach to calculating compensation can be found in Chapter 6 and a summary of assets is provided in Chapter 7.

⁸² The socio-economic survey data has been used to assist in the identification of livelihood restoration options. It also forms the baseline against which monitoring of livelihood re-establishment will be done during the RAP implementation period.

During the validation process PAPs were also informed of any modification in land requirements that may have resulted from an internal assessment of provisional survey findings, and associated implications for final valuation.



Figure 4-5: Validation Meetings in the Kagera Region

Compilation of Valuation Reports

Following the completion of the validation process, Whiteknights prepared the VR, for submission to the CV. The final VR and Compensation Schedules addressed the following:

- **Tanzanian Entitlement items** which are in accordance with the national legislative procedure, presented as cash compensation, and submitted for approval by the CV (also referred to as Part I); and
- **Additional Entitlements for items under IFS** required to ensure that the PAPs compensation satisfies additional international financing standards obligations (also referred to as Part II). These items are appended to the compensation schedules and have been made known to the CV but are not signed off by the CV, to avoid creating a precedent for future government-led projects. Some of the additional entitlements take the form of in-kind compensation options and livelihood restoration. These aspects are outlined in detail in Chapter 6 of this RAP.

Disclosure of Compensation Schedules

Once a VR and Compensation Schedule is prepared, disclosure of the Compensation Schedules is carried out in accordance with Regulation 64(f) (iii) of the Valuation Regulations, 2018.

The particular Regulation states that a "...compensation schedule which shall contain names of Project affected persons, valuation identity number and photograph, compensable items, amount, allowances and the same shall be available for inspection by all PAPs for a period of not more than seven (7) days from the day of disclosure."

The process to be followed will include:

- Prior engagement with government entities⁸³ to provide an update on the status of the Project and the purpose of the planned disclosure exercise;
- These meetings will be followed by meetings in each of the affected villages with individual PAPs, to present the findings of the asset valuation process. This includes the disclosure of:
 - Property sizes;
 - Identified assets;
 - Applicable entitlements to each PAP; and
 - Proposed compensation amounts.

In the interest of safety and security (especially for vulnerable households), it was decided, in agreement with the CV, that the full compensation schedules should not be displayed in public but that compensation schedules will be made available to individuals for a maximum duration of seven (7) days at a public location within the relevant ward. Grievances lodged by PAPs during the disclosure process will be recorded in writing.

The valuations activities undertaken during the disclosure process in the Kagera Region marked the date for the valuation of the last person's interest. The date for the valuation of the last person's interest for Missenyi was 24th October 2019, Bukoba was 24th October 2019, Muleba was 25th September 2019 and Biharamulo was 3rd September 2019, respectively. The VR for each district has to be approved by the CV within six (6) months from the "Date of Valuation of the last person's interest"⁸⁴.

Sign-off, Submission and Verification of Valuation Reports

Once preparation of the VR and Compensation Schedule has been concluded (including addressing all necessary changes e.g. responses to PAP grievances and / or concerns), the Final Compensation Schedule must be endorsed in the following sequence:

1. Field valuer;
2. Valuer in-charge;
3. Village / mtaa executive officer;
4. Ward executive officer;
5. Authorized land officer;
6. Authorized Valuer; and
7. District Commissioner.

⁸³The following individuals are generally consulted prior to the PAP engagement: RC, DC; DED; DLO; DV; Ward Executive Officer (WEO); VDC; and VEO.

⁸⁴ The Valuation Act, 2016 and Valuation Regulations, 2018.

Once the Compensation Schedule has been endorsed by the above-mentioned officials, both the VR and Compensation Schedule are submitted to the CV for approval. Each VR will be supported with the following:

- A transmittal letter;
- Valuation Form 5 (submission of VRs for compensation purposes); and
- Exchequer receipt for the valuation approval fee.

The CV's office, as per Section 51 of the Valuation and Valuers (General) Regulations, 2018, may initiate a verification process.

The PAP compensation agreement sign offs, and compensation payments can only be undertaken after the CV approval of the VRs. This is covered in Chapter 11: Implementation of Land Acquisition and Resettlement.

After approval of the VR and Compensation Schedule by the CV, compensation must be paid within six (6) months from the date of approval otherwise the compensation amount attracts interest charges. The validity period for valuations for compensation is two (2) years from the date of approval of the VR and Compensation Schedule by the CV.

After the two (2) years, the VR and Compensation Schedule are no longer valid, and a new VR and Compensation Schedule needs be prepared in addition to the land and assets surveys having to be redone.

4.3.4 Conversion to General Land and Relocation

Land for the Project will be acquired on the basis that it is required for the public interest. The majority of land acquired for the Project will be converted into general land by the GoT.

At the time requested by the Project, the GoT in coordination with the Project shall issue (publish in the Gazette and serve, as required by Tanzanian Law) the Notice of Intention to Acquire (Section 6 LAA)⁸⁵ to PAPs identified by the Project. It is envisaged this would occur generally after approval of the VRs by the CV and prior to the meetings with the PAPs and affected communities regarding compensation agreements.

Entitlement briefings will be conducted at village level and will involve presenting entitlements to PAPs (including the PAP and spouse where appropriate) and discussing entitlement options with them. PAPs will be given the opportunity to make informed decisions regarding the compensation and livelihood restoration options they select.

⁸⁵ The GoT will undertake the necessary steps, in collaboration as appropriate with the Project, for the Notice of Intention to Acquire to be issued in accordance with the LAA. This is expected to include, but not be limited to: all required approvals from village / mtaa, ward, district, regional and national authorities; resolution of any related planning matters; necessary surveys and reports; notices as prescribed under the legal framework and the publishing of these, as required, in the Government Gazette. The Project shall provide necessary resources to assist the GoT in the delivery of the notices of intention to acquire in line with the LAA, including the approach for absent owners (Sec. 8(1) LAA).

Once eligible PAPs have selected their preferred compensation and livelihood restoration options, the compensation agreements will be signed by the PAPs and witnessed. The compensation agreements will include a spousal consent (where appropriate). At the time of writing discussions are still underway between the GoT and the Project on the modalities and signing arrangements for the compensation agreements.

Once agreement on compensation is reached, compensation will be paid (or, as applicable, relevant amounts will be placed in escrow). Cash compensation payments will be deposited directly into the bank account of the beneficiary and spouse (if married).

The Project will undertake necessary actions and support PAPs to ensure security of tenure for replacement land. PAPs eligible for in-kind compensation and livelihoods restoration will be assisted in accordance with this RAP, the Project objectives and the compensation agreements.

4.3.5 Socio-Economic and Livelihood Investigations

Understanding the socio-economic profile and livelihood systems of PACs, PAHs and PAPs, including Vulnerable People (VP), that allow appropriate mitigation measures and livelihood restoration to be developed form a critical part of this RAP.

The research and collation of information to complete this task was the responsibility of the Socio-economic and Livelihood Investigations (SELI) Team and this section provides a summary of this team's work in the Kagera Region. The main objectives of the study included:

- Undertaking an assessment of pre-resettlement livelihood activities as a basis for developing effective and sustainable livelihood restoration strategies. This allowed the development of a detailed understanding of the following:
 - Prevailing types of cropping land tenure, other proprietorial arrangements such as sharecropping, and any underlying customary land allocation arrangements;
 - Types and varieties of crops grown (annual, perennial, tree crops);
 - Level of inputs (fertilizer, pesticides, etc.) and use of improved varieties;
 - Typical household landholding / cultivated area;
 - Typical yields achievable in the study area;
 - Calendar of agricultural activities;
 - Crop cycles and fallow periods (this will require the assessment to be done over two (2) seasons (winter and summer);
 - Relative importance of subsistence versus cash cropping;
 - Importance and role of bush land;
 - Labour inputs / amount of time invested in agriculture versus other activities;
 - Access to markets;

- Access to agricultural expertise and extension services;
- Availability of farm extension services (NGOs, government); and
- Market dynamics (traders).
- Gathering socio-economic baseline data on the Project Affected Communities (PACs)⁸⁶;
- Collecting data on primary and secondary livelihoods and natural resource use;
- Assessing the impacts that the project could have on livelihoods; and
- Developing an LRP that gives PAPs and PAHs the opportunity to restore and improve their livelihoods.

Preparation and Planning

The SELI Team for the Kagera Region included:

- Senior international consultant;
- Senior Tanzanian socio-economic consultant; and
- Junior Tanzanian socio-economic consultant.

The Kagera Region SELI Team underwent training from 8th – 13th October 2018. Table 4-5 lists the training received.

Table 4-5: Summary of SELI Team Training

Activities	Themes and Topics Covered
Workshop and project familiarization.	<ul style="list-style-type: none"> ● Introduction of team members and presentation on recent organogram distributed; ● Discussion on the allocation of teams to regions; ● Discussion on delivery dates for VRs and RAPs and compiling of team members rotations and schedule; ● Overview of deliverables and responsibilities; and ● Expected inputs into the RAP.
Training and research tool development.	<ul style="list-style-type: none"> ● Qualitative research tools; ● Research methods included Focus Group Discussions (FGDs) and Key Informant Interviews (KIIs); ● Interview approach (including role plays); ● Stakeholder engagement approach and deliverables; ● Livelihood restoration concepts; ● Value-chain analysis; ● Host communities (Issues, risks, benefits); ● Mapping of social and community services and assets; ● Baseline surveys; ● Vulnerable groups and sensitive receptors; ● Key risks – influx, transitional support;

⁸⁶To augment the findings of the household socio-economic surveys (i.e. landholders and tenants), the SELI study was also used to gather further socio-economic and livelihood data of the project affected communities (i.e. village level) to inform the RAP planning.

Activities	Themes and Topics Covered
	<ul style="list-style-type: none"> • Identification of livelihood programs; • Identification and capacity of partners (CBOs; Govt); • Monitoring and evaluation; • Ad hoc activities; and • HSE, conduct, reporting.
On-the-job, or in-field, training.	<ul style="list-style-type: none"> • All of the above.

Execution of the Study

The SELI Team undertook the fieldwork research and engagement in Kagera Region from 30th October 2018 – 31st January 2019.

The SELI Team focused on gathering qualitative socio-economic data through a series of FGDs, KIs, household case studies, and observations in each of the PACs. This included:

- FGDs with PAPs, non-PAPs, members of WDCs and VDCs during which techniques were employed such as word association and storytelling;
- One-on-one meetings with opinion leaders, VEOs, executive officers and government officers to gather additional information and / or to validate specific information shared at FGDs;
- Where appropriate, additional and tailored engagement with potentially Vulnerable Ethnic Groups;
- One-on-one meetings and small group meetings with PAP during corridor walks during which land use activities were observed;
- One-on-one meetings to discuss any issues and questions FGD participants may have had but did not want to raise in the group; and
- Household case studies to understand the range of livelihood mixes, ethnic backgrounds and production levels. Factors examined as part of case studies included (but not limited to):
 - Arrangements for access to land / criteria for selecting cropping locations;
 - Land succession versus land from communal pool;
 - Total household land resources;
 - Calendar of livelihood and agricultural activities;
 - Tree and crop varieties and cultivation techniques;
 - Level of inputs (labor, fertilizers, pesticides, etc.);
 - Crop rotation and use of fallow land;
 - Gender roles and division of labor;
 - Agricultural risks and coping strategies (e.g. drought, bush fire, insect attack, theft, losses to rodents);

- Methods of crop handling and storage;
- Any secondary processing that occurs within the household;
- Relative importance of subsistence activities versus cash earning;
- Modes of transportation (and costs);
- Markets where produce is sold;
- Buyers of produce and pricing arrangements;
- Strategies for managing in times of hardship;
- Access to common property resources (e.g. bush land) – any customary rules or limitations;
- Household uses and resources derived common property; and
- Participation in any cooperatives, farmers' organizations, other networks for support.

In addition, the SELI team gathered and captured Project related issues and concerns raised by the participants which were fed into the Issues Register and referred to relevant specialists. GPS coordinates of social and public services and infrastructure in each of the Project Affected Wards and communities were collected and mapped.

Overall, the SELI Team engaged 1 760 participants across the Kagera Region.

Analysis of Existing Data and Literature

In addition to fieldwork research and engagement, as described in Section 4.3.5.2, the study also included an analysis of existing literature and data. This assessment included:

- Defining a relevant legislative and institutional framework associated with agriculture, agricultural land acquisition and agricultural livelihood restoration including the following:
 - Identification of government institutions responsible for agricultural administration that could contribute to the livelihood restoration planning process; and
 - Identifying any farmers' associations or Civil Society Organizations (CSOs) (universities, technical or research institutes, NGOs etc.) that may have an interest in the Project area.
- Reviewing existing reports and studies to identify any lessons learned, possible livelihood diversification and improvement options.

Findings and Reporting

The findings, and recommendations, of the work completed by the SELI team have supplemented existing socio-economic data, and has contributed to the development of the following areas of the RAP:

- Socio-economic conditions in the Kagera Region and within the PACs (see Chapter 5);
- Identification and contextual understanding of potential vulnerable ethnic groups in the Kagera Region (Chapters 5, 8, 9 and 10);
- The LRP (see Chapter 8); and
- The Vulnerable Peoples Plan (VPP) (see Chapter 9).

4.3.6 Replacement Housing and Land

Both Tanzanian legislation and IFC PS5 accommodates for (i) replacement land and (ii) replacement housing. However, in practice this is not often offered as an option in Tanzania. The replacement housing investigation is briefly outlined below and further discussed in relation to housing design in Chapter 7. Replacement land eligibility is detailed in Chapter 6.

Replacement Housing Investigation

This section briefly explains the field work that supported the replacement housing study completed in support of Project RAPs.

The field team responsible for the replacement housing study included:

- Registered Tanzanian architect;
- Registered Tanzanian structural engineer;
- Internationally registered architect; and
- Registered Tanzanian quantity surveyor.

The field investigations were completed following the baseline work undertaken for the concept housing designs in the PA Replacement Housing - Concept Design Report⁸⁷ with a view of expanding the work to cover the whole pipeline. An overall objective of the study across the eight (8) regions is to identify any notable differences that may impact housing needs and design such as different climatic conditions, functional and / or cultural norms.

For each region a list of structures to be impacted was compiled to ensure a cross section of structures across the various wards and villages was assessed. During the visit of selected impacted dwellings, the team considered:

- Size and layout of existing structures;
- Number of habitable structures in a homestead;
- Construction type and style;
- Cultural practices and traditions of potential vulnerable ethnic groups;
- Materials used in the construction;

⁸⁷ Replacement Housing Concept Design Report: Pipeline (2019) (Digby Wells Consortium).

- Use and functionality of spaces (habitation, storage);
- Use and type of ancillary including kitchen structures and latrines;
- Number of occupants of each dwelling; and
- Other general observations including the availability of services (power, water, etc.)

In addition, the team visited hardware shops and suppliers of building materials in each region and neighboring area(s) to check the availability, quality and prices for construction materials. In particular, potential suppliers or fabrication centers for metal casement windows and grills, concrete blocks, timber, cement and concrete were targeted. These details were used in the development of costings to determine overall cost and details for inclusion in a bill of quantity for the various house types.

The findings from the field work were used as a basis for continued development and refinement of concept designs initially prepared for the PAs to confirm a set for the pipeline. The designs included prudent selection of materials to ensure that each element is durable, fit for purpose, and generic throughout (i.e. includes standardized sizing for fittings such as doors, windows, handles etc.).

The design and selection of building materials continued from those developed for the PAs. The overall design philosophy is to provide simple, compact, and cost-effective structures that will provide an overall improvement in the standard of construction not significantly different in configuration to existing structures observed in Kagera.

The designs address basic building standards and issues of comfort, health and safety including essentials such as adequate lighting and ventilation. Cultural norms and specific requirements of the PAPs including siting and use of ablution facilities were also considered. The final position and siting of structures will address local weather conditions, i.e. prevailing wind direction and use of materials resilient to such conditions of the various localities.

An overall concept design report for the eight (8) regions has been developed. The report will include the findings of the field investigations including an analysis of local architectural styles and use of building materials, building functionality, behavioral and cultural practices, ancillary building use and design, an assessment of factors influencing the availability of building materials and costs of materials for each region including Kagera. A summary of the existing dwellings and structures within Kagera Region are included in Chapter 7.

4.3.7 RAP Finalization and Disclosure

The outcomes and results of all these activities are documented in this RAP.

The final draft of this RAP will be submitted to the GoT on completion, including ME, TPDC and the MLHSD, for a 30-day review and comments period prior to finalization then disclosure. The final RAP will address GoT comments received. Public disclosure of the RAP is required to meet international financing standards.

The RAP will be made available in an accessible form to Project-affected groups and other stakeholders. Future resettlement planning and implementation will account for comments made. Comments will be recorded along with any actions taken to address them.

Any changes of a material nature will be discussed with relevant GoT authorities and stakeholders and disclosed to PAPs.

A series of district meetings will be conducted to present the RAP within the affected areas.

A summary of the RAP will be provided in an appropriate format.

5 SUMMARY OF AFFECTED PEOPLE AND ASSETS

5.1 Background and Introduction

The objective of this chapter is to present a summary of the people and assets that will be physically and economically displaced by the pipeline through the Kagera Region. The chapter is structured as follows:

- Section 5.1: Background and introduction (this section);
- Section 5.2: A general overview of the Kagera Region as the overall host region;
- Section 5.3: A general overview of the four (4) Project-Affected Districts, namely Missenyi, Bukoba, Muleba and Biharamulo Districts;
- Section 5.4: A general overview of the Project-Affected Communities (PACs);
- Section 5.5: A detailed description of PAHs within the context of affected wards (and associated villages);
- Section 5.6: An overview of PAHs' requirements in terms of development support;
- Section 5.7: An overview of Vulnerable Ethnic Groups that may self-identify as Indigenous People in the Kagera Region, the PACs and the households affected by the Project;
- Section 5.8: An overview of vulnerable households⁸⁸; and
- Section 5.9: A summary of resettlement-related impacts.

The baseline information presented in this chapter was derived from the following sources:

- The Tanzanian National Census⁸⁹;
- Regional & District socio-economic profiles:
 - Missenyi District Council Socio-economic Profile 2015 (September 2017);
 - Bukoba District Council Socio-economic Profile 2015 (May 2018);
 - Muleba District Council Socio-economic Profile 2015 (May 2018); and
 - Biharamulo District Council Socio-economic Profile 2015 (May 2018);
- Results of the RAP Socio-Economic Survey undertaken by DWC (2018);
- Results of the SELI undertaken in the Kagera Region by DWC (2018 / 2019);

⁸⁸ Additional detail on potentially vulnerable households is provided in Chapter 9.

⁸⁹ National Bureau of Statistics Tanzania (March 2013). National Population and Housing Census 2012: Population Distribution by Administrative Areas.

- Tanzania ESIA Vol 1, Section 6: Environmental and Social Baseline Conditions (November 2018);
- EACOP Valuation Report for Compensation for Additional Entitlements under International Financing Standards for the Missenyi District (31 October 2019);
- EACOP Valuation Report for Compensation for Additional Entitlements under International Financing Standards for the Bukoba District (31 October 2019);
- EACOP Valuation Report for Compensation for Additional Entitlements under International Financing Standards for the Muleba District (31 October 2019); and
- Valuation Report for Compensation for Additional Entitlements under International Financing Standards for the Biharamulo District (31 October 2019).

A summary of displacement impacts resulting from Project related land restrictions in the Kagera Region is provided in Table 5-1. The information presented follows the pipeline corridor from north to south, i.e. where the pipeline corridor enters the Kagera Region in the north at the Mutukula Village (in the Mutukula Ward of the Missenyi District) and exits the region in the south at the Nyamigogo Village (in the Nyamigogo Ward of the Biharamulo District).

Table 5-1: Summary of Displacement Impacts in the Kagera Region

District	Ward	Village	Pipeline Length (km)	Land Parcels (No.)	Land Area (acres) ⁹⁰	PAPs (No.)	PAHs (No.) ⁹¹	Vulnerable PAHs (No.)	Vulnerable Ethnic Group PAHs (No.)	PAHs Losing Dwellings	Buildings and Structures Affected (No.)			Crops Affected			Economic Trees and Other Trees (No.)	Graves
											Residential Dwellings	Other Structures	Incomplete Structures	Crops Acres	Intercropping Acre	Crops Stems		
Missenyi	Mutukula	Mutukula Village	5.49	76	41.20	62	56	14	1	2	3	7	1	2.97	4.16	6 021	6 769 (plus 0.65 acres of trees)	6
	Nsunga	Byamutemba Village	6.98	25	51.72	25	21	6	0	0	0	0	0	15.00	0.05	31	1 340	0
		Igayaza Village	5.54	42	43.22	38	31	12	0	2	2	1	0	2.67	0.81	1321	17 466	0
	Kassambya	Mabuye Village	4.43	65	33.41	77	64	25	0	7	7	9	1	4.12	4.16	9 692	8 460	9
		Kassambya Village	1.50	34	10.87	36	29	14	0	1	1	3	0	3.38	0.23	5 262	2 869	7
		Nyabihanga Village	3.98	85	26.25	79	70	24	0	7	7	11	2	5.14	1.74	15 982	9 285	14
	Kyaka	Bulifani Village	3.53	45	26.07	53	46	24	0	0	0	1	0	4.27	1.84	3 753	3 968	19
Kilimilile	Kilimilile Village	7.66	75	56.76	64	61	27	0	3	3	0	0	14.12	1.59	5 431	4 814	6	
Subtotal: Missenyi District			39.11	447	289.50	434	378	146	1	22	23	32	4	51.67	14.58	47 493	54 971	61
Bukoba	Kyamulaile	Kyamulaile Village	7.35	23	55.89	21	19	9	0	2	3	2	1	0.31	0.00	640	709	0
	Mugajwale	Kobunshwi Village	5.04	106	40.52	95	84	38	0	3	3	0	1	4.08	0.68	10 150	5 685	0
		Mugajwale Village	5.32	109	41.79	121	112	38	0	7	8	5	5	3.10	10.32	12 221	10 403 (plus 4.7 acres of trees)	8
	Kyaitoke	Kyaitoke Village	5.93	145	47.41	146	138	38	0	12	12	16	5	1.80	14.51	7 009	17 955	18
	Izimbya	Izimbya Village	1.86	4	13.91	2	1	0	0	0	0	0	0	0.00	0.00	0	0	0
	Kyaitoke	Rugaze Village	2.86	3	21.63	2	1	0	0	1	1	0	0	0.00	0.00	0	0	0
	Kibirizi	Kamuli Village	7.13	71	55.24	64	55	20	0	1	1	0	2	0.93	8.80	1 169	3 411	3
Rukoma	Nsheshe Village	2.88	5	22.29	18	16	6	0	0	0	0	0	3.70	0.01	19	0	0	
Subtotal: Bukoba District			38.37	466	298.69	469	426	149	0	26	28	23	14	13.92	34.32	31 208	38 163	29
Muleba	Ngenge	Rwigembe Village	4.27	78	33.31	75	71	29	0	1	1	3	0	4.24	3.51	1 146	2 367 (plus 2.66 acres of trees)	5
		Nyakanyasi Village	3.85	96	30.52	96	90	48	0	8	9	16	2	3.63	8.04	1 510	4 726 (plus 0.05 acres of trees)	12
		Ngenge Village	6.17	133	48.96	131	116	36	0	5	5	5	1	7.34	11.57	2 109	4 112	12
		Kishuro Village	4.06	112	32.97	93	80	32	0	6	6	14	0	1.84	8.15	1 517	3 022	8

⁹⁰ Land area valued and compensated in each village excluding some infrastructure crossings, such as road reserves and powerline wayleaves, which will remain.

⁹¹ Determined from PAHs who participated in the Socio-Economic Household survey and excludes Villages/Mitaa authorities and other Government institutional PAPs, as well as individual PAPs who did not participate in the socio-economic survey.

District	Ward	Village	Pipeline Length (km)	Land Parcels (No.)	Land Area (acres) ⁹⁰	PAPs (No.)	PAHs (No.) ⁹¹	Vulnerable PAHs (No.)	Vulnerable Ethnic Group PAHs (No.)	PAHs Losing Dwellings	Buildings and Structures Affected (No.)			Crops Affected			Economic Trees and Other Trees (No.)	Graves
											Residential Dwellings	Other Structures	Incomplete Structures	Crops Acres	Intercropping Acre	Crops Stems		
																	(plus 1.22 acres of trees)	
		Rukindo Village	2.55	65	22.05	60	53	30	0	3	3	3	0	2.18	4.33	1 757	2 151 (plus 0.37 acres of trees)	5
	Burungura	Kakoma Village	6.81	139	53.54	122	113	76	0	8	8	1	1	7.72	10.15	1 697	3 385 (plus 1.33 acres of trees)	10
	Mubunda	Kikagate Village	6.25	41	27.46	42	39	21	0	3	5	6	1	3.95	1.67	341	178	1
		Kikagate Village PS-3 ⁹² (and part of Access Road)		20	66.84	19	17	7	0	4	5	7	0	3.65	1.81	352	102	1
	Bisheke	Milanda Village (includes part of PS-3 Access Road)	2.45	26	29.58	33	30	19	0	0	0	0	0	4.62	3.06	1 011	540	0
	Kasharunga	Kiteme Village(includes part of PS-3 Access Road)	8.85	217	78.98	213	201	61	0	8	8	20	0	20.41	10.7	8191	3502 (plus 1.91 acres of trees)	9
	Karambi	Kiguzi Village	5.00	132	40.98	119	111	47	0	6	6	8	1	7.56	4.99	4 938	4 298 (plus 0.83 acres of trees)	6
		Karambi Village	2.61	53	21.45	47	44	19	0	1	1	1	0	2.99	4.02	2 028	901 (plus 0.37 acres of trees)	0
		Kanyamika Village	8.25	94	62.97	91	84	43	0	1	1	5	0	12.41	4.98	1 492	661	3
	Kyebitembe	Kasindaga Village	1.06	13	8.14	12	11	5	0	0	0	1	0	1.92	0.17	122	35	0
Subtotal: Muleba District			62.18	1 219	557.75	1 153	1 060	473	0	57	62	96	6	84.46	77.15	28 211	29 980	72
Biharamulo	Nyamigogo	Nyamigogo Village	1.17	11	8.83	8	8	4	0	0	0	0	0	0.22	0.00	11	10	0
		Kasozibakaya Village	5.56	29	42.02	30	29	11	0	2	3	1	0	12.71	2.90	381	120	3
Subtotal: Biharamulo District			6.73	40	50.85	38	37	15	0	2	3	1	0	12.93	2.90	392	130	3
TOTAL: KAGERA REGION			146.39⁹³	2 172	1 196.97⁹⁴	2 094⁹⁵	1 901	783	1	107	116	152	24	162.98	128.95	107 304	123 244⁹⁶	165

⁹² A number of PAPs in Kikagate Village, Milanda Village and Kiteme Village have land and/or assets affected by the pipeline corridor and PS-3 and/or the access road. The proposed PS-3 access road runs along the corridor and within it partially.

⁹³ This excludes 0.24 km through the Minziro Forest Reserve, 7.54 km through the Ruiga River Forest Reserve, and 20.41 km through the Biharamulo Game Reserve. The total pipeline length through Kagera Region is therefore 174.58 km

⁹⁴ This excludes 1.91 acres in the Minziro Nature Forest Reserve, 60.53 acres in the Ruiga River Forest Reserve and 160.58 acres in the Biharamulo Game Reserve.

⁹⁵ This includes 5 PAPs with land parcels in multiple villages.

⁹⁶ Excludes trees affected in Minziro Nature Forest Reserve, Ruiga River Forest Reserve and Biharamulo Game Reserve in Kagera Region which have been recorded and valued by the Project separately.

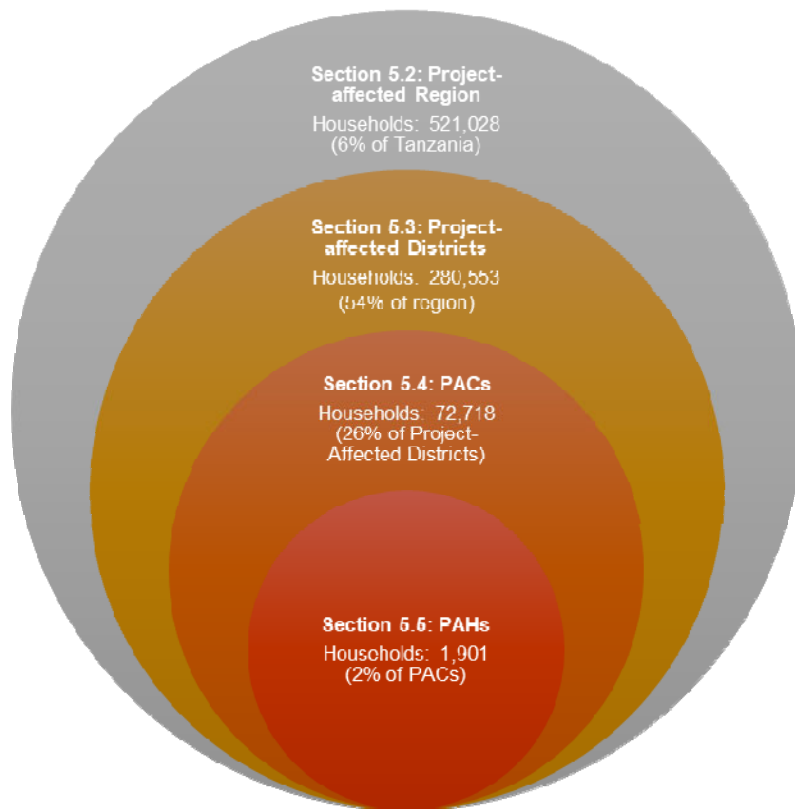


Figure 5-1: Structure of Project Affected Areas discussed in Chapter
The structure followed for the socio-economic baseline profiles is shown in

Figure 5-1 above.

5.2 Project-Affected Region

The Kagera Region is located on the western shore of Lake Victoria and is the northernmost region of Tanzania. The region is bordered by Uganda to the north, Rwanda and Burundi to the west, the Kigoma Region to the south, and the Geita Region to the east. It consists of eight (8) districts, namely Biharamulo, Bukoba, Bukoba Municipal, Karagwe, Kyerwa, Missenyi, Muleba and Ngara.

Of these, four (4) districts are Project affected, from north to south: Missenyi, Bukoba, Muleba and Biharamulo districts.

The Kagera Region within the broader context of surrounding regions and affected wards is shown in Figure 5-2. Unless otherwise specified, the baseline profile for the Kagera Region was based on secondary data obtained from the Kagera Region's Basic Demographic and Socio-Economic Profile⁹⁷

⁹⁷ United Republic of Tanzania (2016). Kagera Region: Basic Demographic and Socio-Economic Profile (based on 2012 Population and Housing Census).

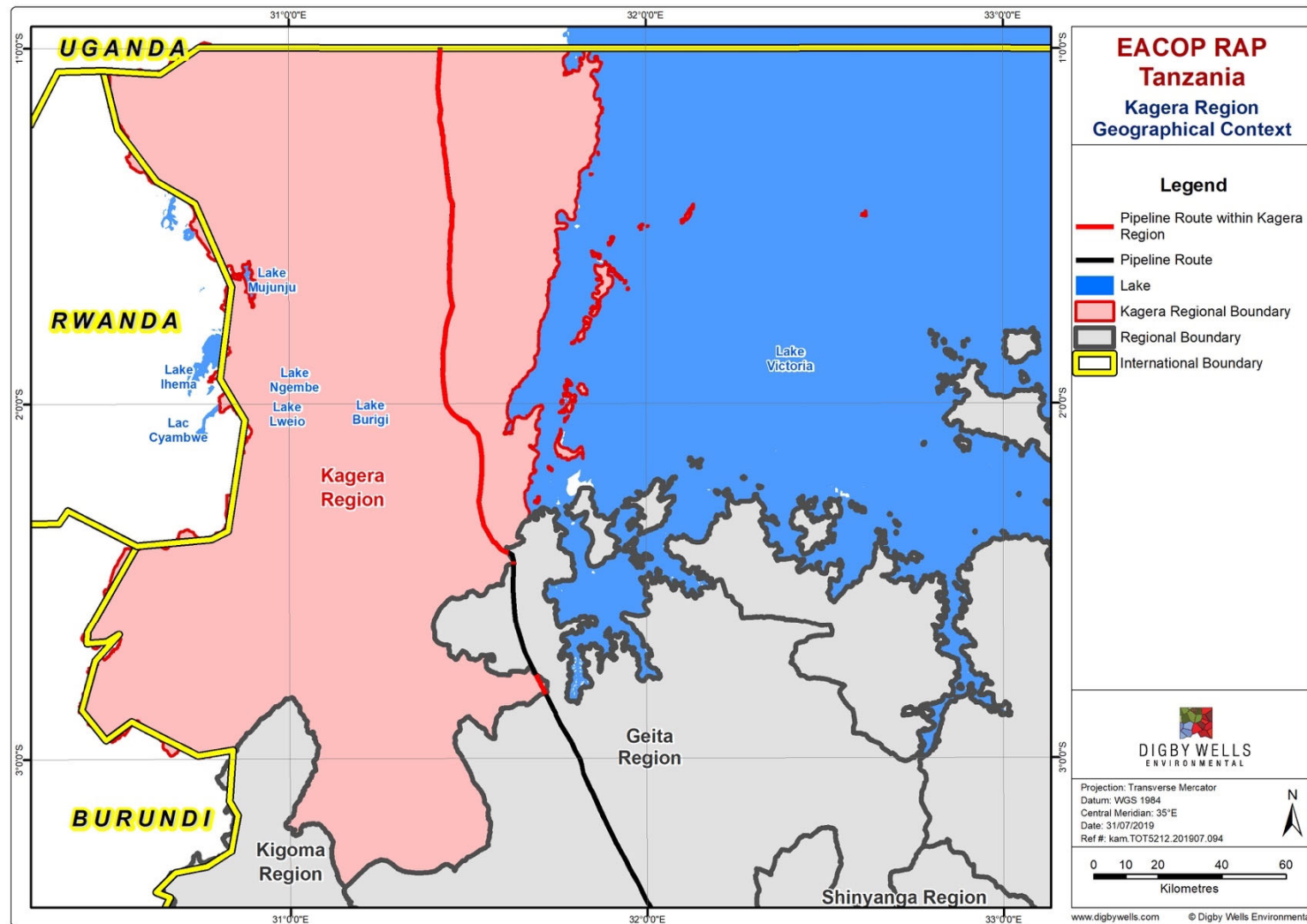


Figure 5-2: Geographical Context of the Kagera Region

5.2.1 Population and Household Characteristics

Population

Kagera Region covers a geographical area of 40,838 km², which includes 11,885 km² that is covered by the water of Lake Victoria, Lake Ikimba, Lake Burigi and the Ngoni and Kagera Rivers. In 2012, the region had a total population of 2,458,023 people with a population density of around 85 people per km² (considering only the dry land area as habitable). The region had an average annual growth rate of 3.2% per annum between the 2002 and 2012 census, which was the third highest in the country. There was an almost equal split between males and females, with females in the slight majority at 51%. Almost half of the population (49%) were in the working age group of 15-64. The other half was made up of people under 14 years (48%), and the elderly (65+, 3%).

Households

In 2012, the Kagera Region consisted of 521,028 households with an average household size of 4.7 persons per household, of these, 31.9% were female headed. Male-headed households tended to be smaller with an average occupancy rate of 3.3 persons per household compared to female-headed households that had an average occupancy rate of 7.4 persons per household. Most of the households (84.6%) owned the house that they lived in, followed by 9.7% who rented.

Literacy and Education

According to the 2012 Census⁹⁸, the overall literacy rate for those aged 5 years and older was 69.8%. The literacy rate was slightly higher amongst males (72.1%) than females (67.6%). There was a noticeable difference in the literacy rate in urban areas (90.7%) versus rural areas (67.7%). The adult literacy rate (i.e. individuals aged 15 years and older) was 76.8% - again much higher in urban areas (94.1%) than in rural areas (74.8%).

Most of the population aged 5 years and older completed primary school (87.2%), while 10.3% completed secondary school. Only 0.8% of the population went for further training after completing secondary school and only 0.9% went on to university or another tertiary institution.

Ethnic Groups

The Haya is the main ethnic group in Kagera Region. In addition to the Haya, there are also other ethnic groups in smaller numbers, including groups that are internationally recognized as indigenous peoples, namely the Maasai, Barabaig, Hadzabe and Akie. The GoT does not officially recognize indigenous peoples. However, as will be elaborated in Section 5.7, there is clear evidence that these group might be more vulnerable than others to displacement and other Project-induced impacts. This vulnerability stems from their semi-nomadic lifestyle and marginalization within Tanzanian society. For this reason, the term “vulnerable ethnic

⁹⁸ United Republic of Tanzania: National Bureau of Statistics (March 2013), 2012 Population and Housing Census: Population Distribution by Administrative Areas.

group” has been adopted in this RAP to refer to these groups. The four (4) vulnerable ethnic groups who self-identify as indigenous peoples are:

- The Hadzabe, who are considered indigenous to Shinyanga, Singida and Dodoma regions, have an estimated population size of around 3,000. Hadzabe reliance on hunting and gathering remains high, despite efforts from Government to introduce agriculturally based livelihoods. They speak a language that appears to be unrelated to any other language, which is suggestive of very ancient origins;
- The Maasai, originally Nilotic pastoralists who migrated into Tanzania along the course of the Nile from southern Sudan. The range of the Maasai is divided between Tanzania and Kenya. They are the biggest indigenous group with an estimated population size of around 450,000. Within the Project-affected area, they are mostly found in Manyara, Singida and Dodoma;
- The Barabaig, with a total estimated population size of around 75,000, are traditionally similar to the Maasai groups in that they are semi-nomadic and herd cattle. In recent years, many have become agro-pastoralists and they farm maize, beans and millet.⁹⁹ The Barabaig are sometimes referred to by the derogatory term "Mang'ati.", but due to the derogatory nature of this term, it is not used in this RAP. Within the Project-affected area, they are mostly found in the Manyara and Dodoma regions; and
- The Akie, with a population size of around 5,000, are traditionally a hunter-gatherer people living mostly in the Arusha and Manyara regions. Besides hunting, beekeeping constitutes an important livelihood for many Akie. The Akie are sometimes referred to by the term "Dorobo / Ndorobo", but due to the derogatory nature of this term, it is not used in this RAP. Within the Project-affected area, they are found in the Manyara region.

Although the Sandawe along with the Hadzabe were once considered hunter-gatherer groups in Tanzania, the Sandawe have abandoned their hunter-gatherer lifestyle and adopted the agricultural lifestyle of mainstream society. Today the Hadzabe are recognized as indigenous peoples internationally, while the Sandawe are not¹⁰⁰. This RAP has adopted a conservative approach by including the Sandawe as a vulnerable ethnic group, even though they do not have general international recognition as indigenous people. The Sandawe mostly inhabits the Dodoma Region and has a total estimated population size of around 40,000.

Of these groups, only one (1) PAH in the Kagera Region self-identified as Barabaig. This PAH is discussed in more detail in Section 5.7.

⁹⁹ MRGI (2016). World Directory of Minorities and Indigenous Peoples. Minority Rights Group International website, URL: <http://minorityrights.org>.

¹⁰⁰ http://www.africa.kyoto-u.ac.jp/kiroku/asm_normal/abstracts/pdf/36-1/yatsuka.pdf.

5.2.2 Land Use and Tenure

According to the Kagera Region's Basic Demographic and Socio-Economic Profile (2016), in 2012 a third of households (33%) had no title deeds/documentation over the land on which their main dwelling was built, while 4% of households had a title deed. A further 57% had customary rights over the land.

The majority of the region's households (77%) engaged in agricultural activities, resulting in large portions of the region's land being used for crop farming and grazing.

5.2.3 Livelihood Activities

The main sectors that people derive their livelihoods from were commercial agriculture, food crops and forestry (76%), fishing, hunting, livestock and other related industries (3%), domestic services (4%) and mining and quarrying (2%). All other economic sectors in the region each had less than 1% of the economically active population engaging in these activities – this includes sectors such as manufacturing, construction, education, public administration, etc.

Within the agricultural sector, 77% of households are engaged in the production of crops. Major food crops included maize, rice, cassava and bananas, with maize being the main staple food for those in urban and rural Kagera. Around half (47%) of households in the Kagera Region keep at least one type of livestock.

5.2.4 Access to Services and Public Infrastructure

In 2012, two thirds of households in the region used non-improved water sources, which included unprotected springs (33%), surface water (19%) and unprotected dug wells (9%). The other third used improved water sources, which included piped water (17%) and protected wells and springs (20%).

The use of modern sources of energy for cooking in the Kagera Region was very low, even in the urban areas. Most households (85%) used firewood for cooking. In rural areas the use of firewood was as high as 92%, whereas charcoal (69%) and firewood (25%) are the predominant energy sources for cooking in urban areas. Overall, 69% of households in the region used kerosene for lighting. Most houses in rural areas used kerosene (74%), whereas houses in urban areas used a mix of electricity (48%) and kerosene (29%) for lighting.

Most households (84%) used non-improved toilet facilities, of which half used pit latrines without coverings – the practice was more prevalent in rural areas (90% of households), than in urban areas (35% of households). Households in urban areas had better access to improved toilet facilities (65%), which included flush covered pits (21%) and pit latrines with washable slabs (18%).

5.3 Project-Affected Districts

An overview of the pipeline route through the four (4) Project-affected districts is shown in Figure 5-3, followed by more detailed discussion of these districts.

Unless otherwise stated, the baseline profile of the Project-affected districts was derived from the various district profiles, i.e.:

- United Republic of Tanzania (2017), Missenyi District Council Socio-economic Profile 2015;
- United Republic of Tanzania (2018), Bukoba District Socio-economic Profile 2015;
- United Republic of Tanzania (2018), Muleba District Council Socio-economic Profile 2015; and
- United Republic of Tanzania (2018), Biharamulo District Council Socio-economic Profile 2015.

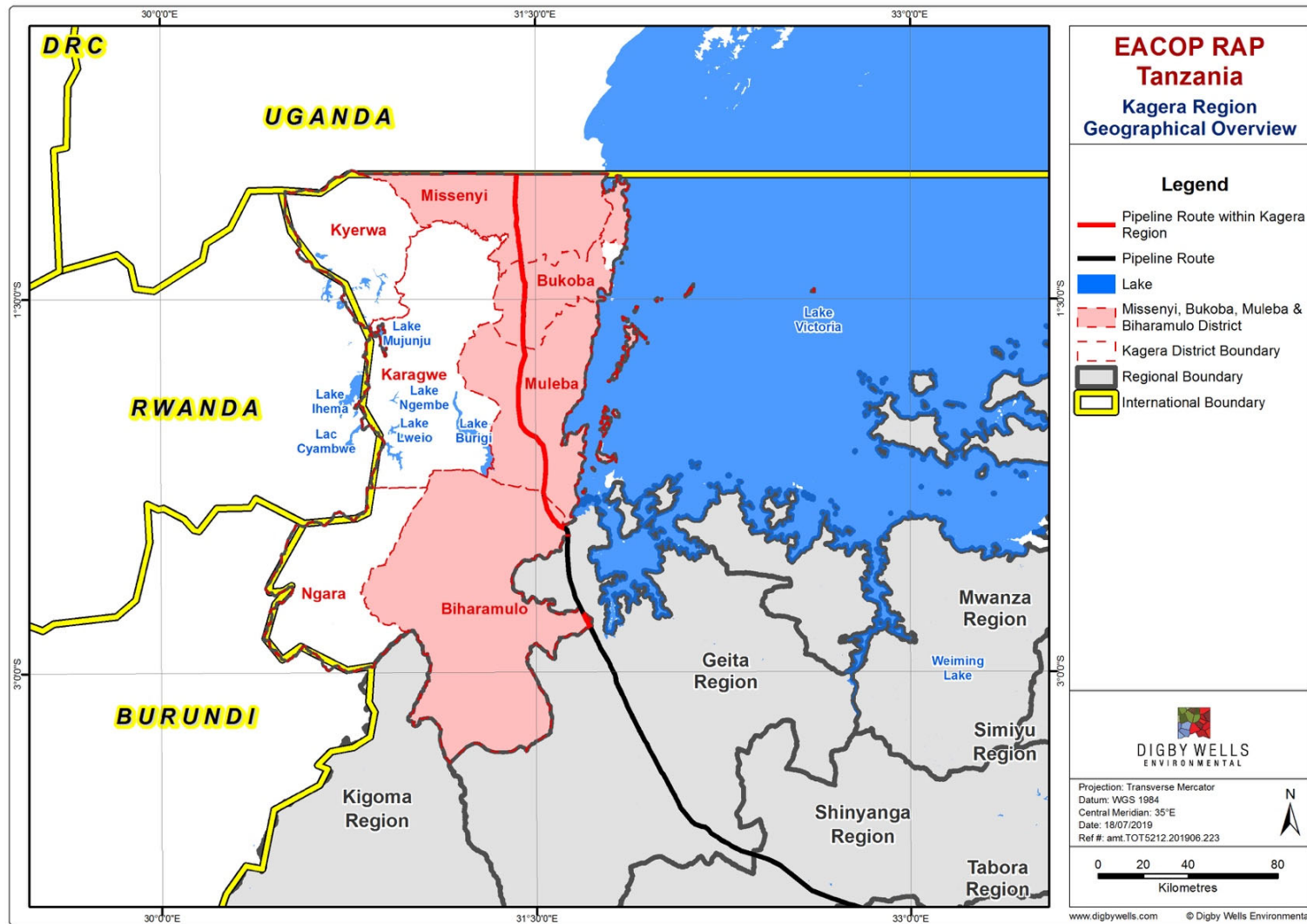


Figure 5-3: Pipeline Corridor Route Showing the Project-Affected Districts in the Kagera Region

5.3.1 Population and Household Characteristics

The four (4) Project-affected districts cover a combined geographical area of 14,701 km² (36% of the regional area) and in 2012, had total population of 1,356,125 people (55.2% of the region's population). The Project-affected districts consisted of a total of 280,553 households (53.8% of the region's households). A summary of the population per affected district is shown in Table 5-2.

Table 5-2: Summary of Population and Household Characteristics per Project-affected District

District	Surface area (km ²)	Population	Population Density (per km ²)	Gender split (%)		Number of Households	Household Occupancy Rate	Gender Household Head (%)		Adult Literacy Rate (%)
				Male	Female			Male	Female	
Missenyi	2 825	202 632	71.7	49.4	50.6	48 104	4.2	65.3	34.7	83.1
Bukoba	2 815	289 697	102.9	48.7	51.3	63 375	4.6	65.1	34.9	84.9
Muleba	3 444	540 310	156.9	49.6	50.4	113 380	4.8	67.8	32.2	78.2
Biharamulo	5 617	323 486	57.6	49.6	50.4	55 674	5.8	74.6	25.4	63.8
TOTAL	14 701	1 356 125	92.3	49.3	50.7	280 553	4.8	68.2	31.8	77.5

The three (3) main ethnic groups in the Missenyi District are the Haya and Sukuma. The Haya are the main ethnic group in Bukoba District. The five (5) main ethnic groups in the Muleba District are the Haya, Sukuma, Subi, Zinza, Kerewe and Nyaruanda. The Subi, Sukuma, Haya and Sumbwa are found in the Biharamulo District.

5.3.2 Land Use

Two (2) rainy seasons occur across all the Project-affected districts. The short (Vuli) rains between October and December and the longer (Masika) rains between March and May. The Masika rains provide favorable conditions for the main cropping season, which includes crops such as banana, paddy, maize and coffee which are planted in late February and March and the short-term crops are harvested in July to August. The Vuli rains provide a minor cropping season favorable for crops that need little rain such as sorghum, yams, groundnuts, sweet potatoes and cassava which are planted around November and are harvested in late January and February.

Approximately 39% of the land in the Missenyi District was classified as arable land used for crop farming. The Bukoba District is slightly smaller than the Missenyi District and about a third of the land in this district is considered as arable land. Other land uses in Bukoba District included grazing land and forest reserves. The Muleba District is the second largest of the Project affected districts. Most of the land in the district was classified as arable (97%), of which 51% was under cultivation. Ruiga River Forest Reserve in Kyebitembe Ward takes up 118.07 acres (92%) of the total forest reserve land of 127.82 acres in the district.

During the 2015 crop season, 99% of the potential area for irrigation was utilized, mainly for maize and rice. The Biharamulo District covers the largest geographical area of the four (4) Project-affected districts. Around a third of the district was taken up by forest reserves, while another third was classified as game reserves. The remaining third consisted of arable land and settlements.

5.3.3 Livelihood Activities

Crop farming was regarded as the most important economic activity across all four (4) Project-affected districts. Banana was the predominant food crop in the Missenyi, Bukoba and Muleba Districts, whilst cassava and maize were the predominant food crops in the Biharamulo District.

Sugar cane was the most important cash crop in Missenyi District, whilst coffee was the most important cash crop in the Bukoba and Muleba Districts. The cash crops varied in Biharamulo between cotton, coffee and tobacco.

Livestock keeping was regarded as the second most important livelihood activity across all Project-affected districts, and included cattle, goats, sheep and pigs. Chickens were the predominant poultry being kept. Honey and wax were also an important livelihood activity in the Muleba and Bukoba Districts.

Fishing and fish farming were livelihood activities practiced in all the districts. Sources of fish included Lake Victoria, the Kagera River and Lake Burigi.

5.3.4 Access to Services and Public Infrastructure

Table 5-3 provides a summary of the households' access to services and public infrastructure, and services in the Project-affected districts. Across all districts, kerosene was noted as the main source of lighting. Firewood was the main source of heat for cooking. More than 60% of the households used unimproved water and sanitation facilities.

Table 5-3: Summary of Access to Services and other Public Infrastructure in the Project-affected Districts

District	Lighting	Cooking	Water Source	Sanitation	Health Facilities	Schools (No.)
Missenyi	Kerosene (86%)	Firewood (92%)	Unimproved (64%)	Unimproved (92%)	41	122
Bukoba	Kerosene (81%)	Firewood (94%)	Unimproved (69%)	Unimproved (90%)	47	181
Muleba	Kerosene (77%)	Firewood (88%)	Unimproved (70%)	Unimproved (84%)	47	253
Biharamulo	Kerosene (86%)	Firewood (92%)	Unimproved (98%)	Unimproved (92%)	41	122

5.4 Project Affected Communities

For the purposes of this RAP, PACs are defined as the population of any ward overlapping with the Project footprint, it thus encompasses PAHs and PAPs, but also includes

households that reside in those wards but will not be physically or economically displaced by the Project.

Theoretically, PACs would also include host communities (communities residing in or using land to which displaced PAHs will be relocated). However, it is the Project's intention to relocate PAHs to nearby sites within the same village (i.e. infill). Where possible, PAHs will be relocated within their current ward of residence, therefore avoiding the creation of new PACs or separate host communities). Thus, PACs constitute the same communities as those within which PAHs currently reside.

This section provides a high-level overview of the PACs (grouped per ward) within the Kagera Region, based on national census data. Section 5 discusses PAHs in more detail, based on primary data gathered during the SELI and household socio-economic survey.

An overview of the PACs is provided in Figure 5-4 for the Missenyi District, in Figure 5-5 for the Bukoba District, in Figure 5-6 for the Muleba District and in Figure 5-7 for the Biharamulo District.

It should be noted that certain sections of the pipeline corridor in the overview maps appear to not fall within the Project affected wards listed in Section 2.2.1 above and discussed in this section. This is because the Tanzanian Geographic Information System (GIS) dataset used for administrative boundaries does not align with data collected in the field during the valuation process. Field data boundaries were confirmed as correct with local authorities and used to inform the baseline profile. Maps are based on the GIS dataset but where differences occur between the GIS and field data sets, these have been clearly indicated in the legend. See Section 2.2.1 for a summary of difference between confirmed field data and the available Tanzanian GIS dataset.

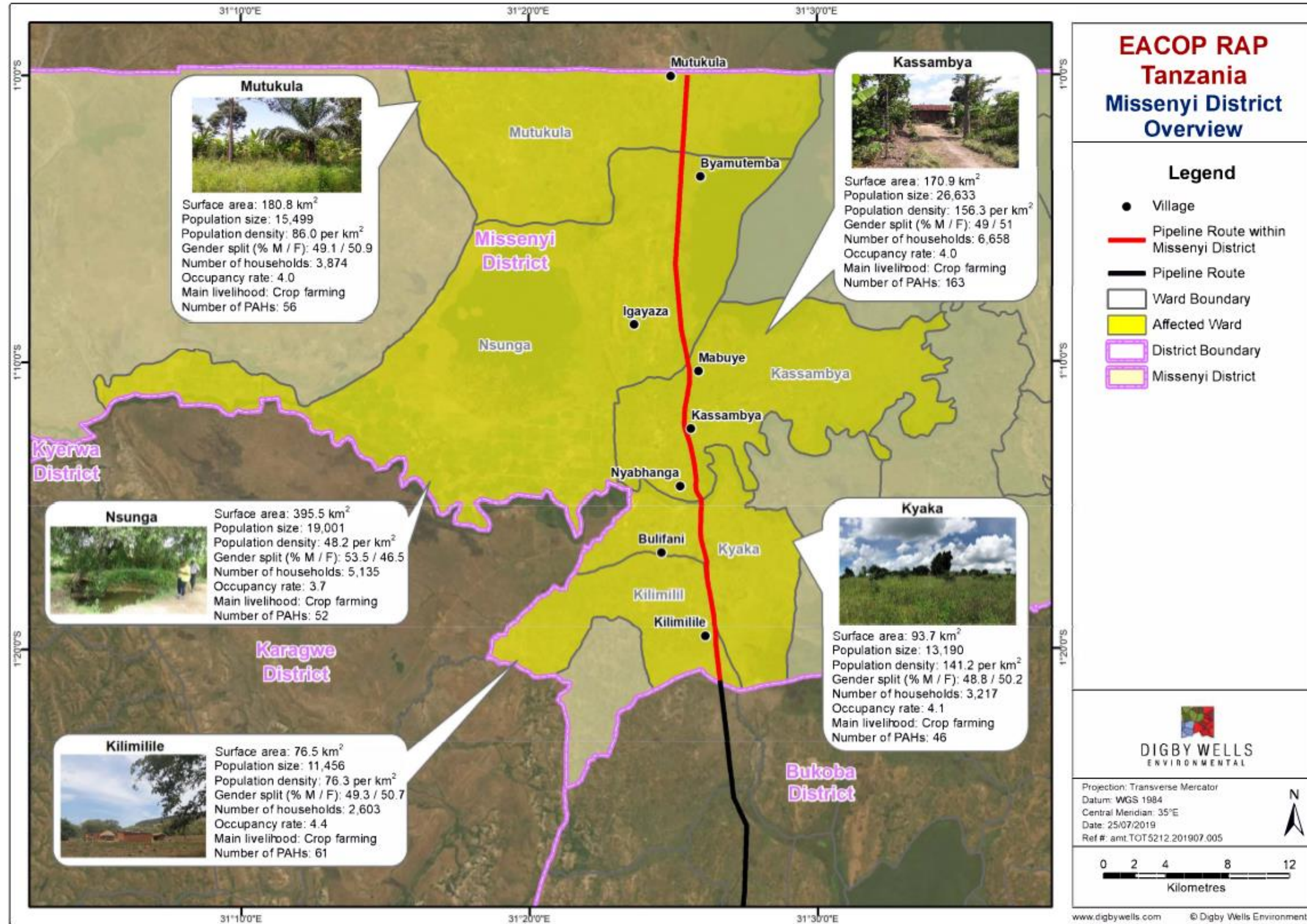


Figure 5-4: Overview of PACs in the Missenyi District¹⁰¹

¹⁰¹ The pipeline corridor for 240 m traverses Minziro Nature Forest Reserve in Nsunga Ward.

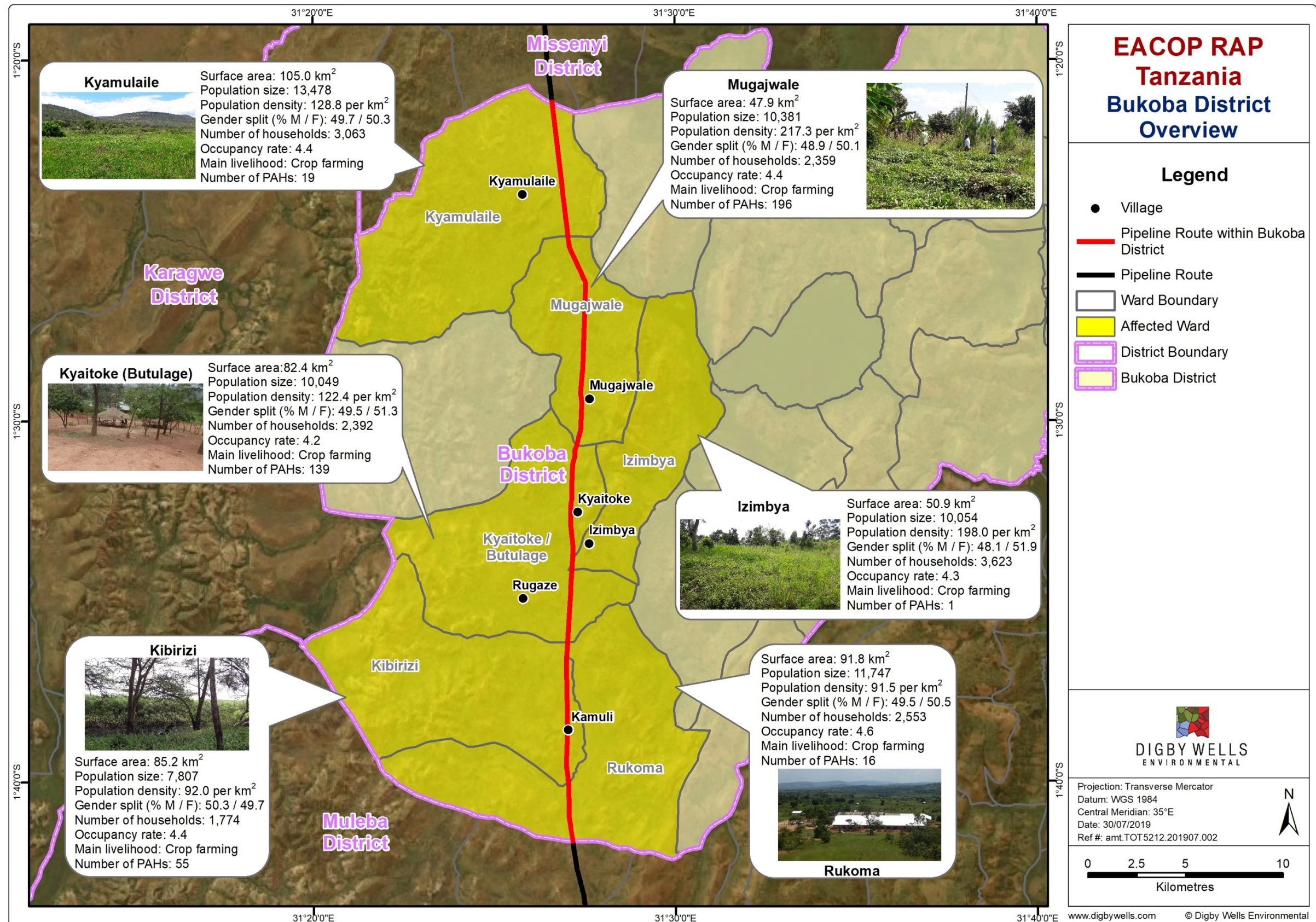


Figure 5-5: Overview of PACs in Bukoba District

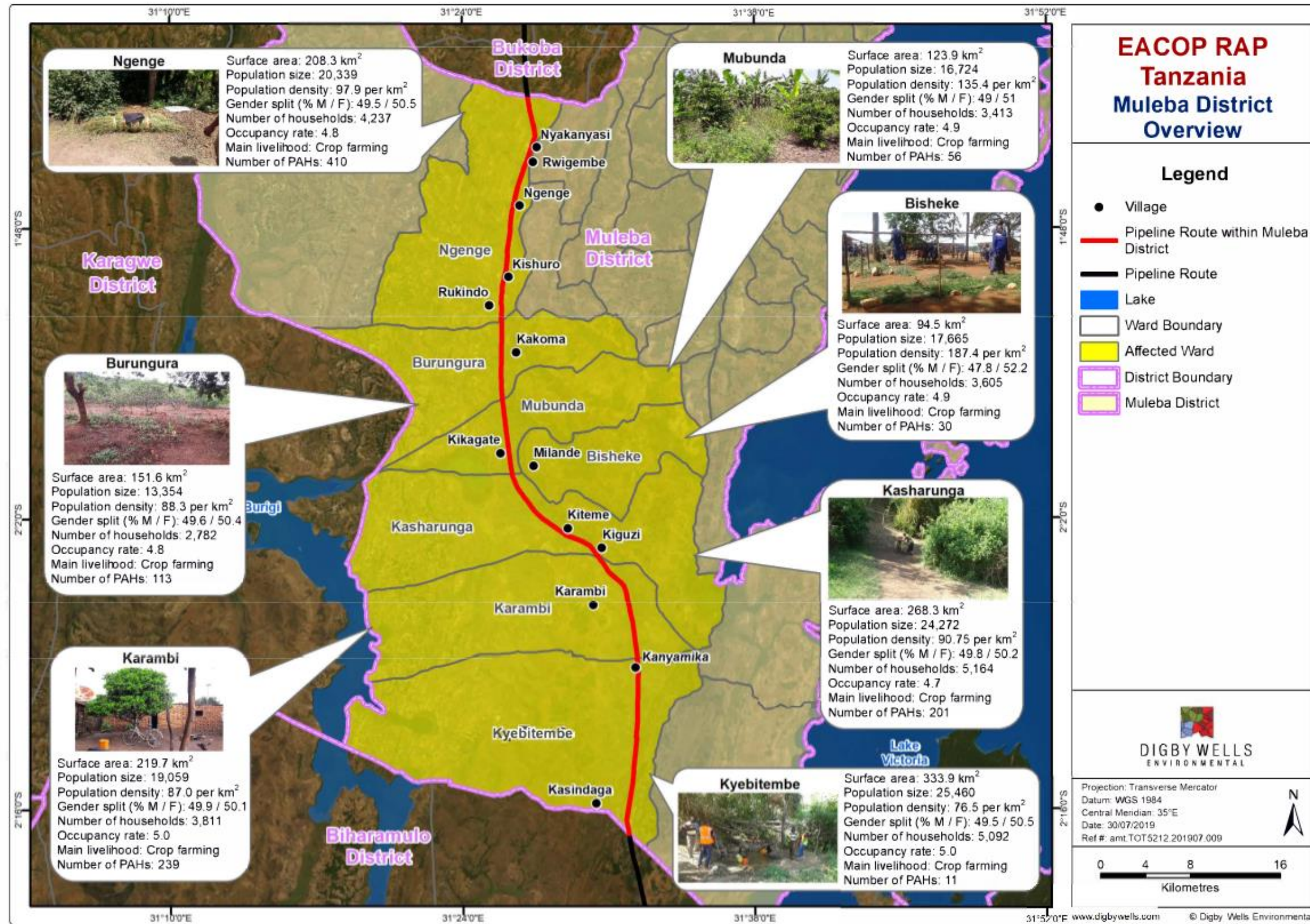


Figure 5-6: Overview of PACs in Muleba District ¹⁰²

¹⁰² Pipeline corridor also traverses for 7.54 km Ruiga River Forest Reserve and for 10.47 km Biharamulo Game Reserve in Kyebitembe Ward.

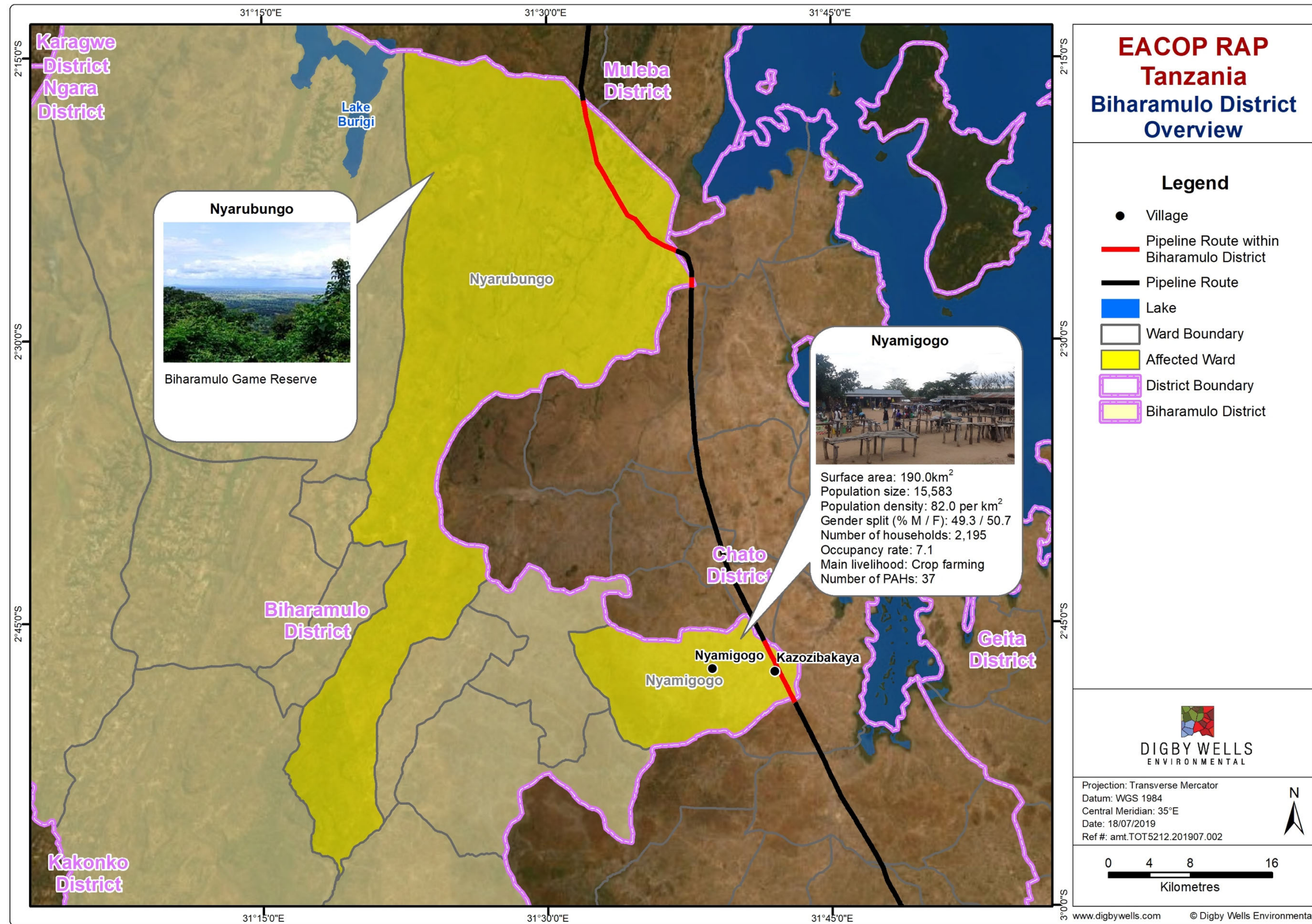


Figure 5-7: Overview of PACs in the Bihamamulo District

5.4.1 Population and Household Characteristics

The total surface area covered by Project-affected wards is an estimated 3,275.5 km² with a total population of 330,177 people. The average population density was 100.8 persons per km². There is an almost equal split between males and females with males in a slight majority at 52%. The PACs consisted of 72,718 households with an average household size of 4.5 persons per household.

5.4.2 Land Use

Affected land is mostly used for agricultural activities and to a lesser extent for grazing. Forested areas (such as MNFR) were used as a source of firewood, medicinal herbs and grass. PACs mostly resided on unregistered customary land.

Ward level land-use plans aim to address land needs and demands. Although the draft plan for most wards in Bukoba and Biharamulo Districts must still be approved by the MLHSD, certain wards have already started implementing their plans. Most wards in Muleba District and Missenyi District have land-use plans.

5.4.3 Livelihood Activities

Most of the PACs' households were agriculturalists (Haya and related ethnic groups) and agro-pastoralists (Sukuma and related ethnic groups – refer to Chapter 8). Crops were produced for household consumption and for household income. Few households were subsistence farmers only. Livelihoods are supplemented by the sale of produce at the marketplace, either directly by households or through intermediaries. Farmers have access to mills for their rice and maize – the produce is either consumed at household level or sold at village markets.

Households in the PACs cultivated a variety of crops for both household consumption and as cash crops. This included maize, beans, bananas, cassava, sorghum, millet, rice and sugar cane, whereas coffee, tobacco, cotton, vanilla and green tea mostly served as cash crops. Households kept a variety of livestock, including cattle, goats, sheep and poultry, amongst others.

Although it is not a widespread livelihood activity, it was reported that wetland areas across the four (4) districts were used for fishing and for harvesting grass. Fishing is also practiced in the Kagera River (Missenyi District) and Lake Burigi (Muleba District).

Trees are harvested for their timber. Eucalyptus, pine, grevillea, mitona, mwarubaini and muhumula trees (these are the names of the trees used locally) were mentioned as sources of timber.

Apart from selling crops and livestock to people in the village and at the markets, PACs run small businesses including selling of bricks, thatch grass (mostly used for floor and roof material), grasshoppers (senene), traditional beer, firewood, herbs and natural remedies, hardware and general household goods.

5.4.4 Access to Services and Public Infrastructure

Figure 5-8 to Figure 5-11 show the location of public services, infrastructure and community assets and Figure 5-12 to Figure 5-15 the location of natural resources for each of the PACs, grouped per district. Data for these maps was obtained from EACOP based on data collected by their field team.

Across the PACs in the four (4) affected districts, the pipeline corridor crosses village road(s), that lead to services such as hospitals, schools, churches, mosques, markets and water. There is on average one (1) school per village, but salary levels and lack of adequate housing deter university graduates from teaching at these schools.

Although the Kagera River was reported as being a reliable water source, access to water during the dry season was a challenge for most PACs across the four (4) districts. Some people's access to water sources could also be temporarily hindered during pipeline construction as they must cross the pipeline corridor to access a water source. Households in the PACs sometimes bought water because of faulty boreholes, brackish water at local water sources, or access to certain water sources being regarded as unsafe. One bucket of water is sold for T.Shs. 100. During the rainy season, temporary water sources include ponds, wetlands, natural springs and lakes.

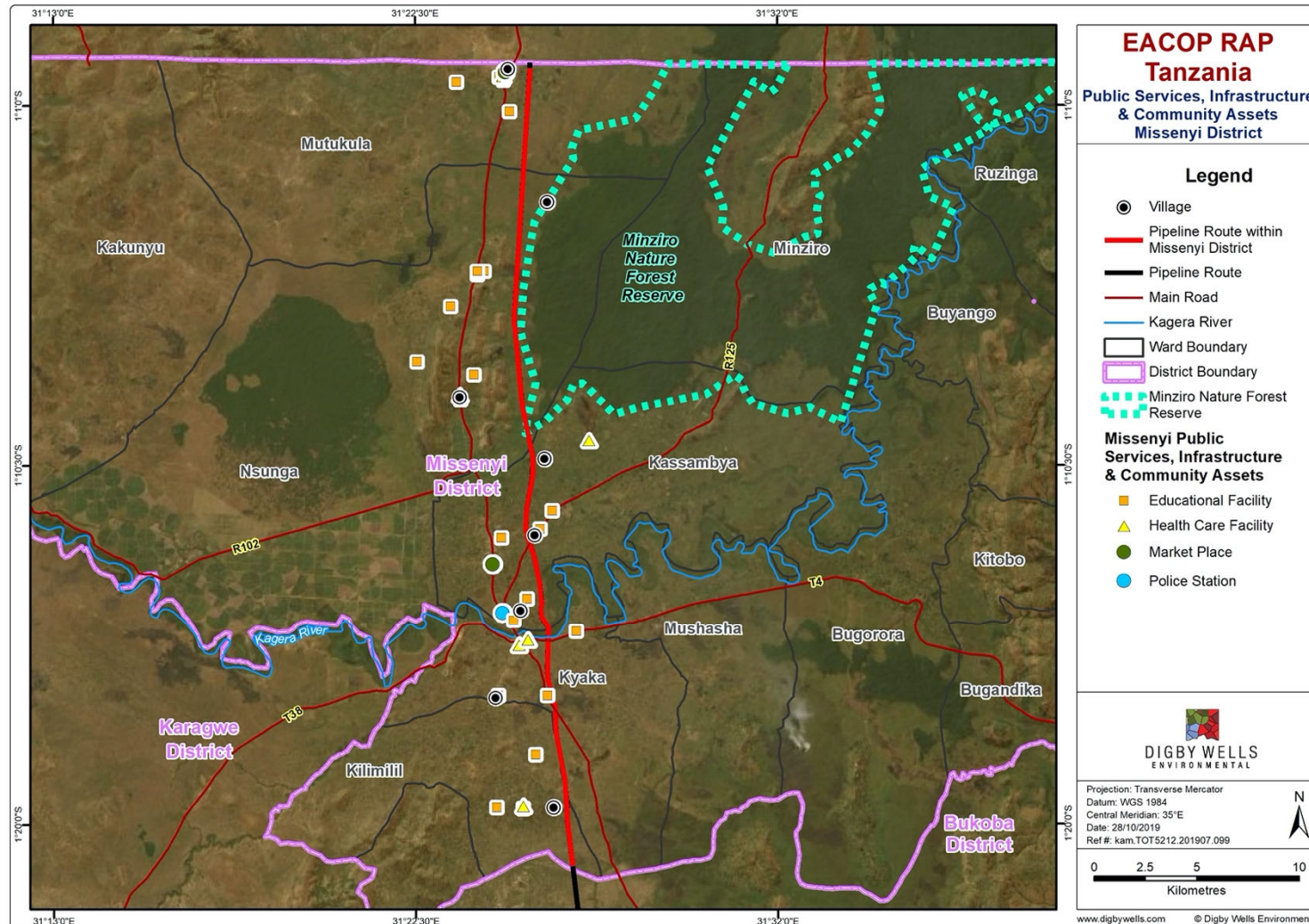


Figure 5-8: Overview of Public Services, Infrastructure and Community Assets in the Missenyi District

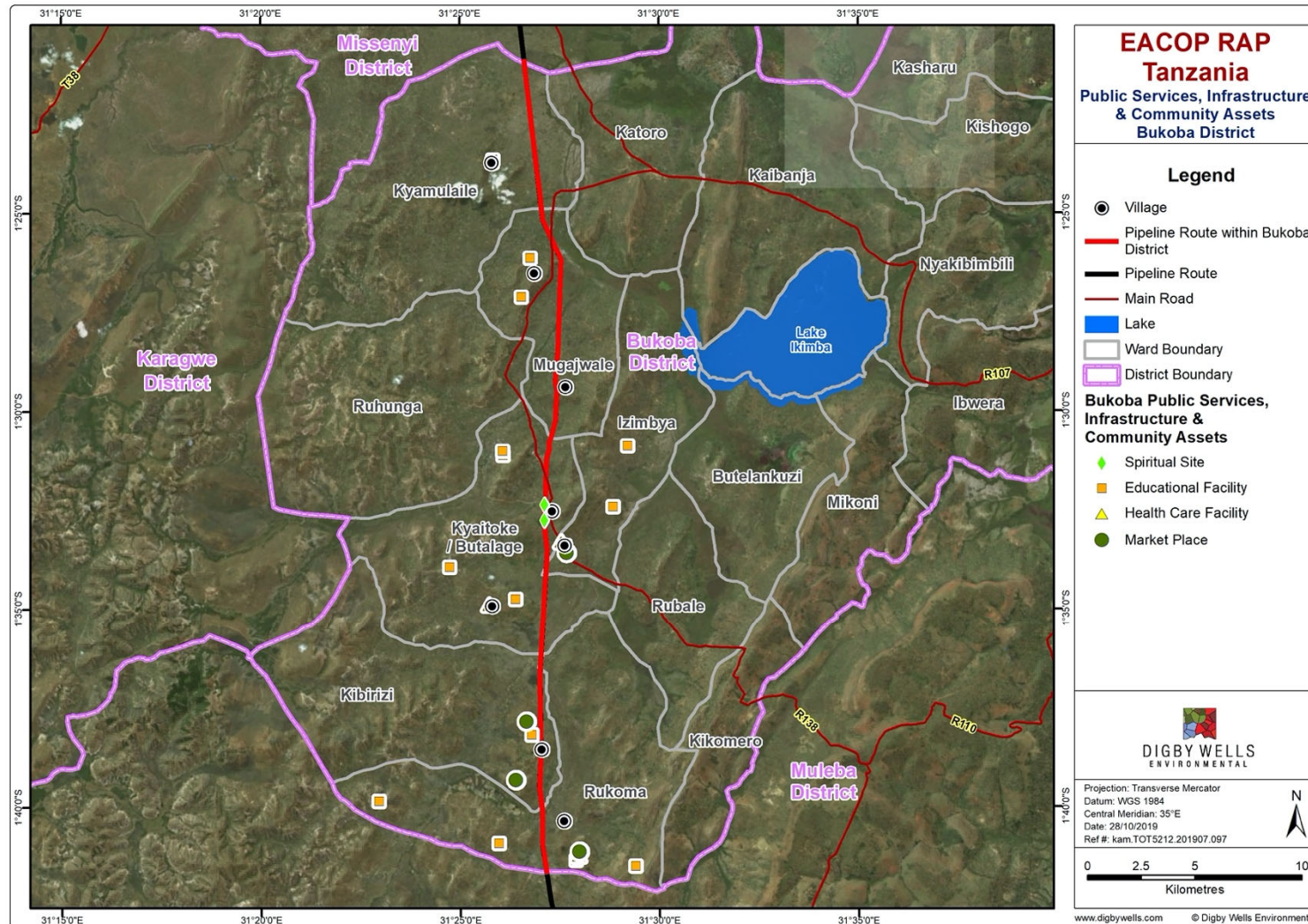


Figure 5-9: Overview of Public Services, Infrastructure and Community Assets in the Bukoba District

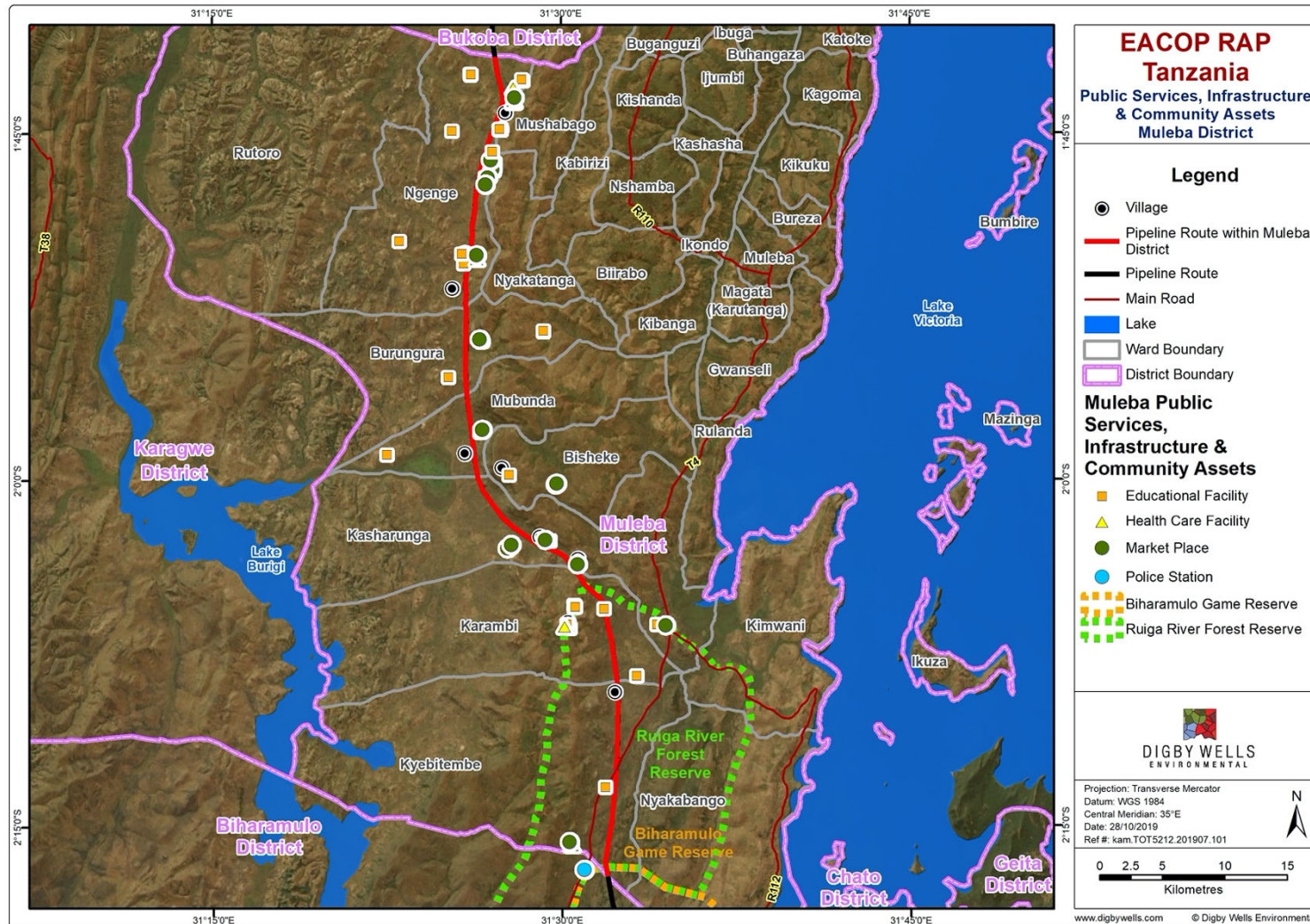


Figure 5-10: Overview of Public Services, Infrastructure and Community Assets in the Muleba District

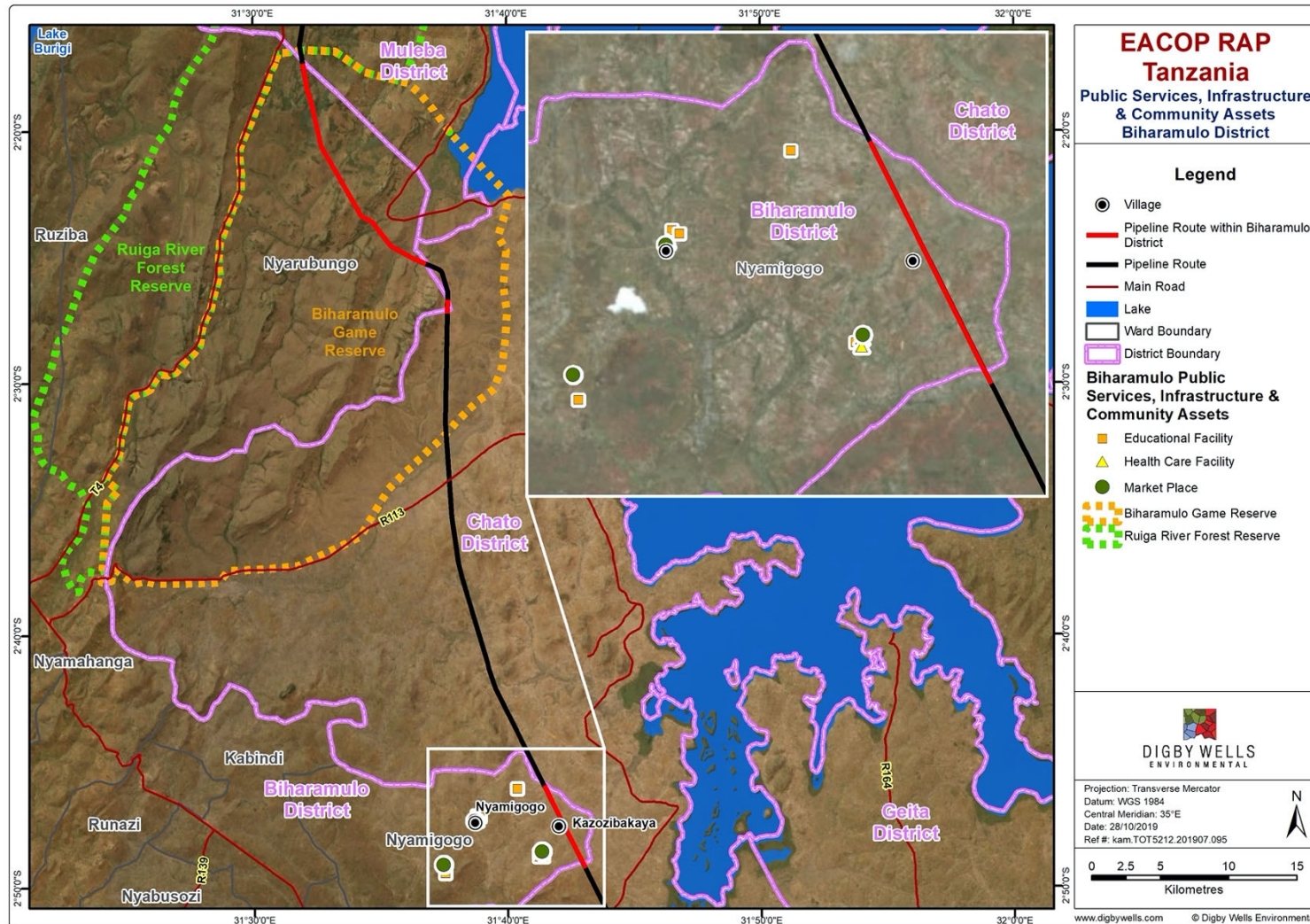


Figure 5-11: Overview of Public Services, Infrastructure and Community Assets in the Biharamulo District

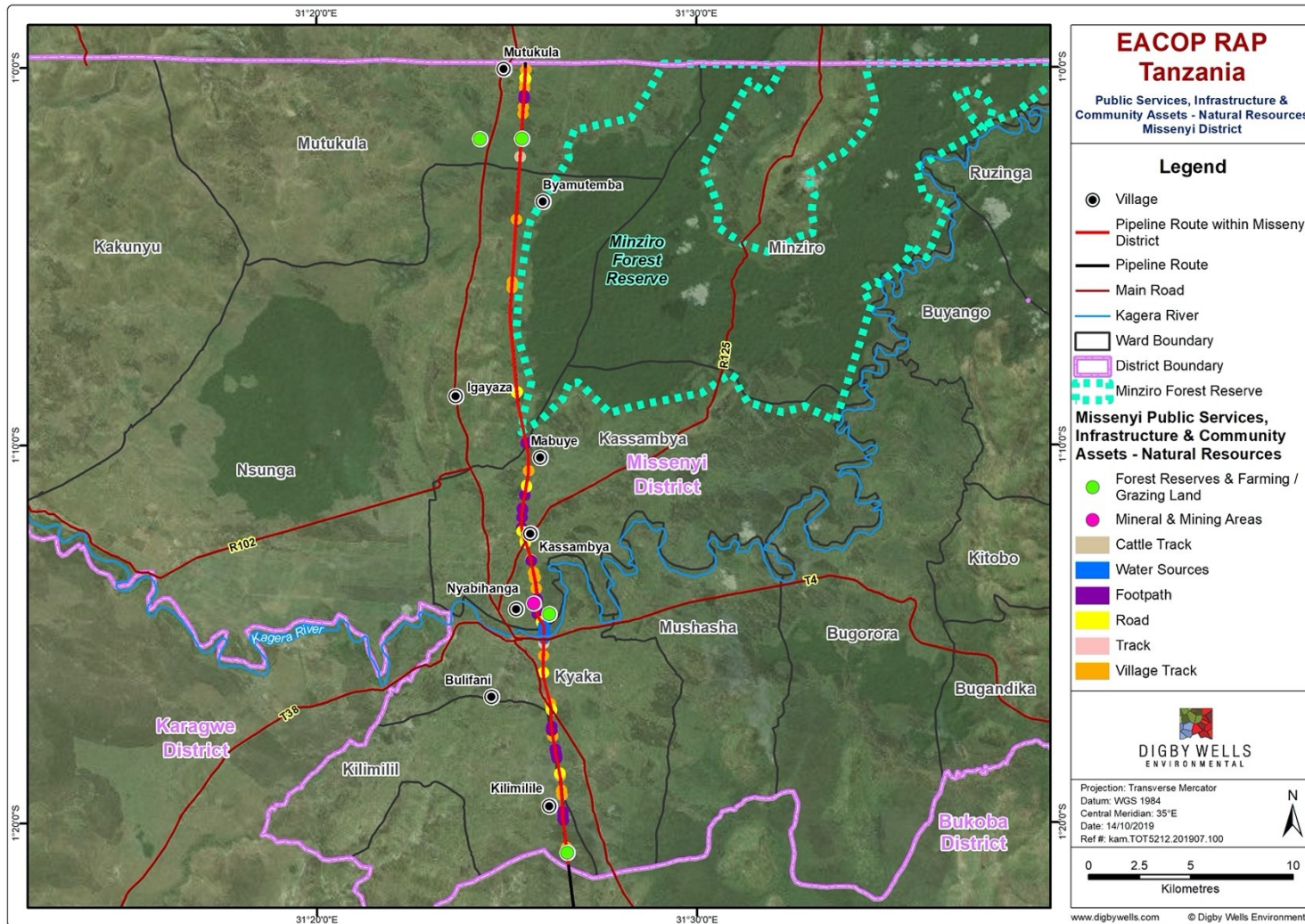


Figure 5-12: : Overview of Natural Resources in the Missenyi District

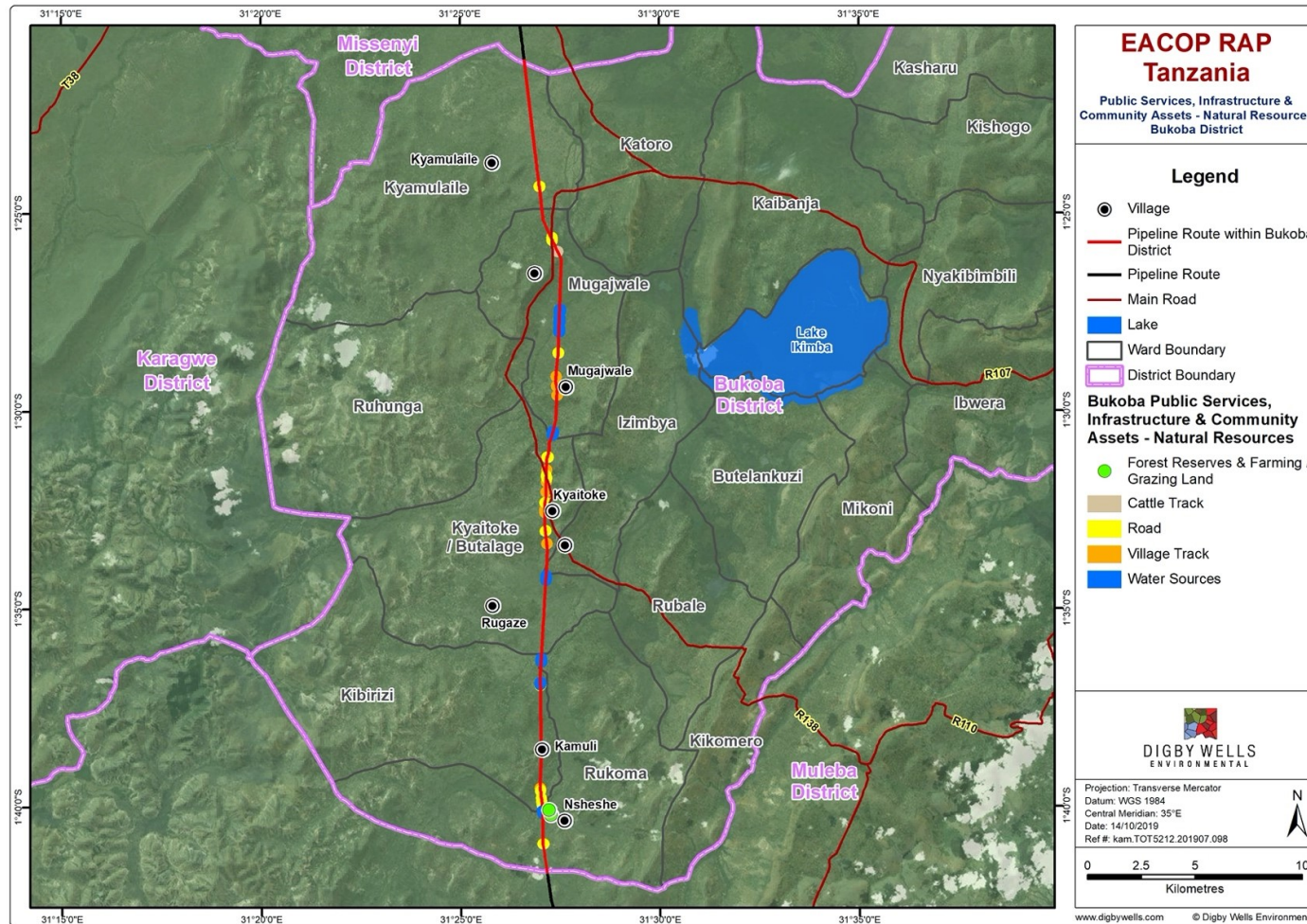


Figure 5-13: : Overview of Natural Resources in the Bukoba District

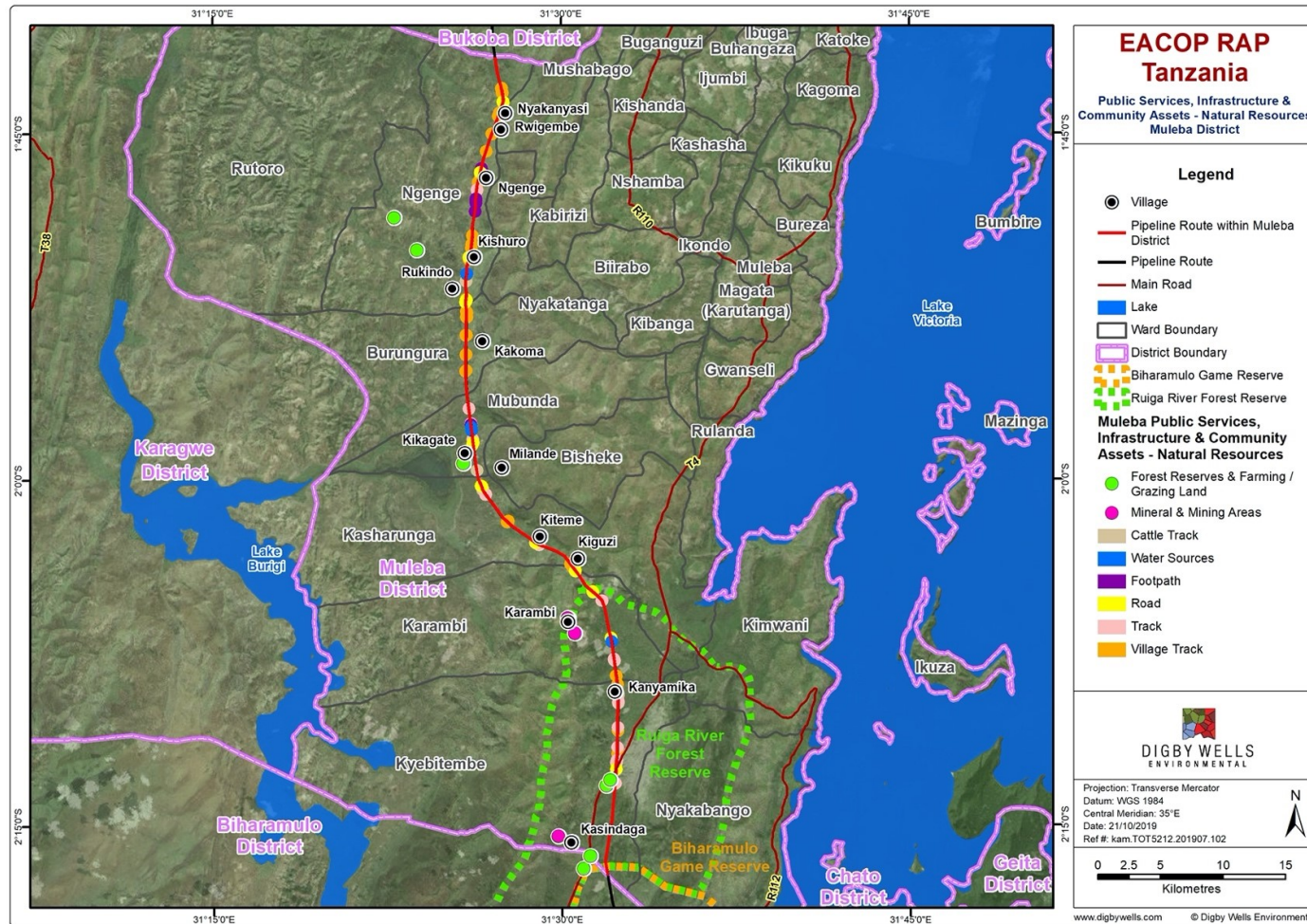


Figure 5-14: Overview of Natural Resources in Muleba District

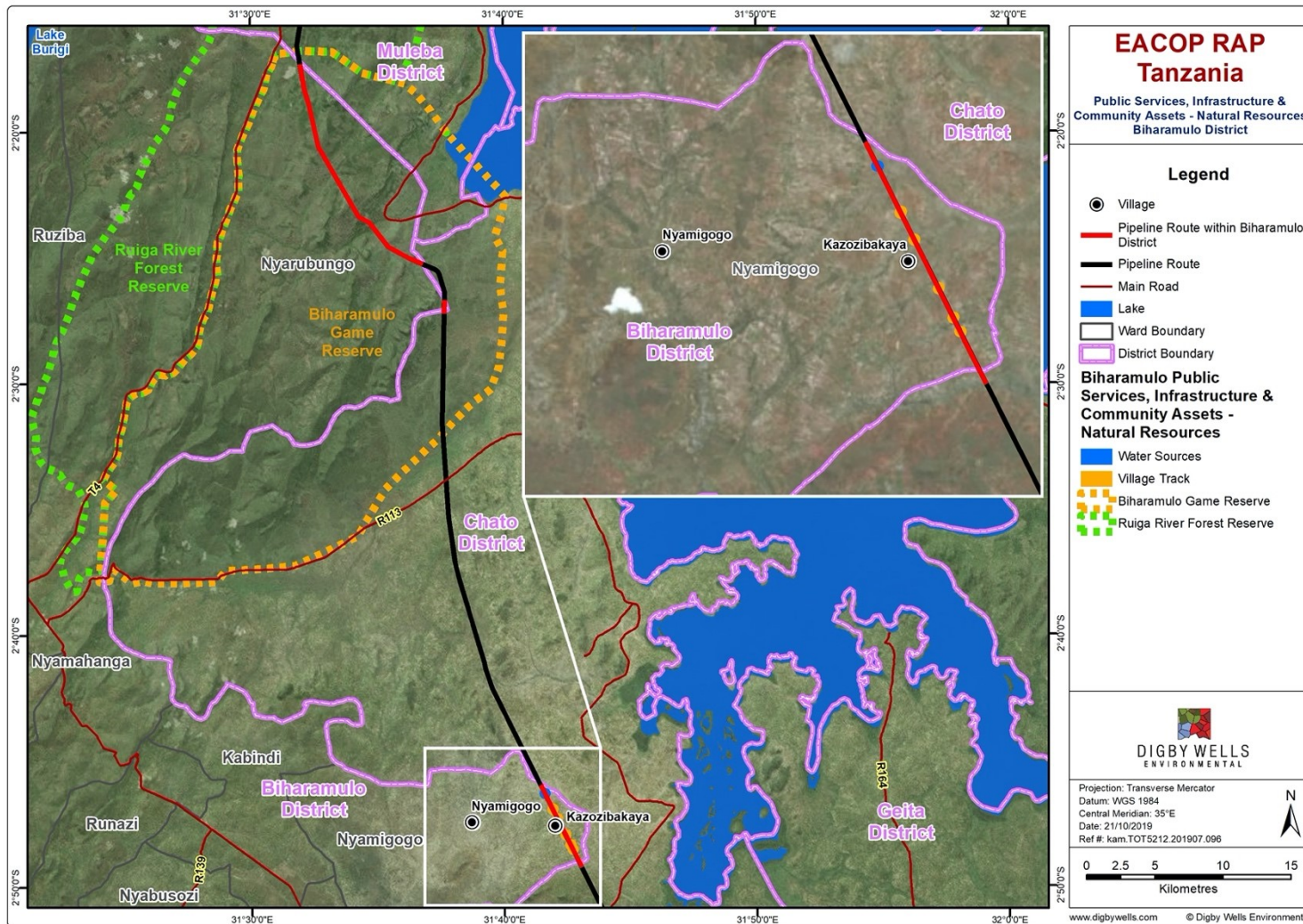


Figure 5-15: Overview of Natural Resources in the Biharamulo District

5.5 Project Affected Households

This section presents an integrated socio-economic baseline profile for PAHs within the Project affected wards of the various districts within the Kagera Region. The profiles have been grouped under each of the Project-affected districts and where key nuances are evident; these have been highlighted. As with the preceding sections, the section focuses on:

- Population and household characteristics;
- Land use and tenure;
- Livelihood practices; and
- Access to services and public infrastructure.

Unless otherwise stated this section is based on information sourced from the following internal reports:

- SELI Field Report for Kagera Region Volume 1 (DWC, October 2019); and
- SELI Field Report for Kagera Region Volume 2 (DWC, October 2019).

5.5.1 Population and Household Characteristics

A summary of the population and household characteristics of PAHs across the affected wards (grouped per district) is provided in Table 5-4¹⁰³.

Table 5-4: Summary of Project Affected Households per Affected Ward

District	Ward	Number of PAPs ¹⁰⁴	Number of PAHs ¹⁰⁵	Proportion of Households Affected (%)	Average Size of PAH	Household Head (%)		Predominant Residential Status
						Male	Female	
Missenyi	Mtukula	62	56	1.5	7	77	23	Permanent
	Nsunga	63	52	1.0	6	88	12	Permanent
	Kasambya	192	163	2.5	5	71	29	Permanent
	Kyaka	53	46	1.5	6	66	34	Permanent

¹⁰³ Based on information sourced from the RAP Socio-Economic and Land Delineation Surveys (DWC / EACOP, 2018 / 19).

¹⁰⁴ Inclusive of government institutions and village authorities.

¹⁰⁵ Of these, 66 PAHs did not complete a socio-economic survey.

District	Ward	Number of PAPs ¹⁰⁴	Number of PAHs ¹⁰⁵	Proportion of Households Affected (%)	Average Size of PAH	Household Head (%)		Predominant Residential Status
						Male	Female	
	Kilimilile	64	61	2.4	6	84	16	Permanent
Bukoba	Kyamulaile	21	19	0.6	6	79	21	Permanent
	Mugajwale	216	196	8.3	5	80	20	Permanent
	Kyaitoke	148	139	5.9	5	75	25	Permanent
	Izimbya	2	1	0.02	3	100	0	Permanent
	Kibirizi	64	55	3.1	6	89	11	Permanent
	Rukoma	18	16	0.6	6	100	0	Permanent
Muleba	Ngenge	455	410	9.7	6	85	15	Permanent
	Burungura	122	113	4.1	6	90	10	Permanent
	Mubunda	42	39	1.6	7	95	5	Permanent
	Mabunda (inc. PS-3)	19	17					
	Bisheke	33	30	0.8	7	93	7	Permanent
	Kasharunga	213	201	3.8	6	78	22	Permanent
	Karambi	257	239	6.3	6	86	14	Permanent
Kyebitembe	12	11	0.2	7	91	9	Permanent	
Biharamulo	Nyamigogo	38	37	1.7	9	78	22	Permanent
TOTAL		2 094	1 901	2.6	6	82	28	-

There are 2,094 PAPs¹⁰⁶, of which 1,786 are landholders and 277 are tenants. An additional 30 PAPs include government institutions and villages, plus one informal land user.

There are 1,901 PAH - the largest proportion is found in Muleba District (1,060), followed by Bukoba District (426) and Missenyi District (378). Biharamulo District only has 37 PAHs. Of the PAHs, one (1) self-identified as Barabaig in Missenyi District. See Section 5.7 for more detailed information on vulnerable ethnic groups.

The average household occupancy rate across the Project-affected wards is 6 persons per household (excluding government institutions and village authorities). With the exception of Kasambya Ward with an average occupancy rate of 5.3, the average occupancy rate of

¹⁰⁶ As indicated in Table 1-1, there are 2,089 PAPs if each of the 5 PAPs who have land parcels in multiple villages are counted once only. They are double-counted here so that the total aligns with the sum of the numbers of PAPs per village.

PAHs in Missenyi District is six (6) and above. The average occupancy rate in Bukoba District ranges from 5.1 to 6.2 between wards, except for the one (1) household in Izimbya Ward whose household consists of 3 members. In Muleba District, most households registered seven (7) members, the lowest average occupancy rate was registered in Ngenge Ward at 5.5 and the highest in Kyebitembe Ward at 7.1. In Nyamigogo Ward (Biharamulo District), most PAHs (45) registered nine (9) household members. Households are mostly male-headed (an average of 80% of all PAHs)¹⁰⁷.

Across all wards, PAHs' members permanently stay with the household (this is the case for more than 95% of PAHs). The majority have lived in their village for 30 years and longer (1,044 PAHs). Only 14% (270) have lived in the village for less than ten (10) years, of these, 66% (179) are in Muleba, which might be ascribed to recent in-migration of people from neighboring wards in search of land that can be used for cultivation.

The majority of PAHs speak Kihaya (an average of 84%) – the exception being the Mubunda, Kyebitembe and Nyamigogo Wards where the majority of households speak Kisukuma (an average of 68% of households). The differences between these two (2) groups in their approach to livelihood activities are discussed in Chapter 8.



Figure 5-16: A typical homestead in Kassambya Ward (Missenyi District)

¹⁰⁷ The gender and marital status of the head of household is considered in the assessment of the vulnerability of PAHs (Chapter 9).

5.5.2 Land Use and Tenure

A total of 2,695 valuations were carried out in the Kagera Region¹⁰⁸. Of the number of valuations, 2,140 are held under customary land tenure (unregistered), 24 under customary land tenure (registered), and 359 under tenancy. Most of the valued land was used for agriculture (2,121 of 2,695 valuations, or 79%). Other uses included residential (132 valuations or 5%) and communal land (123 valuations or 4.5%). In general, PAPs that participated in FGDs reported that they were concerned it would be difficult to find replacement land in their respective wards.

The pipeline corridor traverses three reserves:

- **Minziro Nature Forest Reserve:** The Project pipeline corridor within Minziro NFR in Missenyi District covers an area of approximately 1.91 acres. The land associated with the pipeline corridor is under TFS administration and used for conservation of forest and wetland habitats, although there is agriculture encroachment by neighboring PAPs. PAHs gather firewood from Minziro Forest Reserve. Licenses for lumbering activities, collecting firewood, hunting, beekeeping and conducting rituals must be issued before villagers can access the forest for these purposes. The total tree volume recorded as affected during the valuation for the pipeline corridor in Minziro NFR was 25.11 m³.
- **Ruiga River Forest Reserve:** The Project pipeline corridor within Ruiga River FR in Muleba District covers an area of 60.53 acres. The land associated with the pipeline corridor is under TFS administration and used for conservation of forest and wetland habitats, although a significant amount has been transformed by agricultural activities. The total tree volume recorded as affected during the valuation for the pipeline corridor in Ruiga River FR was 48.29 m³.
- **Biharamulo Game Reserve:** The Project pipeline corridor within Biharamulo GR covers an area of 257.3 acres in Chato (Geita Region) and in Muleba and Biharamulo Districts (Kagera Region). Approximately 160.58 acres of Biharamulo Game Reserve are affected by the pipeline corridor in the Kagera Region. The land associated with the pipeline corridor is under TAWA administration and used for conservation of forest (Guinea–Congo) and wetlands. The total tree volume recorded as affected during the valuation for the pipeline corridor in Biharamulo Game Reserve was 3,329.62 m³ (combined total for Kagera and Geita regions).

Medicinal plants can be found inside the reserves. A special permit is required to undertake any activities in the Minziro Nature Forest Reserve and the Biharamulo Game Reserve, including hunting, collecting firewood and lumber and gathering medicinal plants. This permit must be endorsed by the village leader and the District Forest Services Authority.

¹⁰⁸ Total valuations include all valuations of affected and orphaned land. A land parcel can contain a single landowner plus one or more tenants, (i.e. multiple PAPs) and therefore one land parcel can have more than one valuation. The figures reflected here are consistent with the number of **valuations**, and not the number of affected land parcels.

Graves and Spiritual Sites

The pipeline corridor will affect 165 graves within Kagera Region and 2 spiritual sites were identified during the RAP surveys. Of the affected graves: 61 graves in Missenyi District; 29 graves in Bukoba District; 72 graves in Muleba District and three (3) graves located in Biharamulo District.

Similarly, to the process of grave relocation, the suitable rituals to be performed before the relocation of any spiritual sites will be determined by engagement with the site's guardian. Land and assets associated with these sites have been valued. Impacts on affected spiritual sites will be managed by the Project under the Cultural Heritage Management Plan, including liaison with communities over supporting ceremonies etc.

5.5.3 Livelihood Activities

PAHs' livelihood activities are discussed in detail in the following subsections. Unless otherwise indicated, data reflected in this subsection was sourced from the RAP Socio-Economic Survey and the SELI.

Primary Livelihood Activities

A summary of PAHs' primary livelihood activities is presented in Figure 5-17.

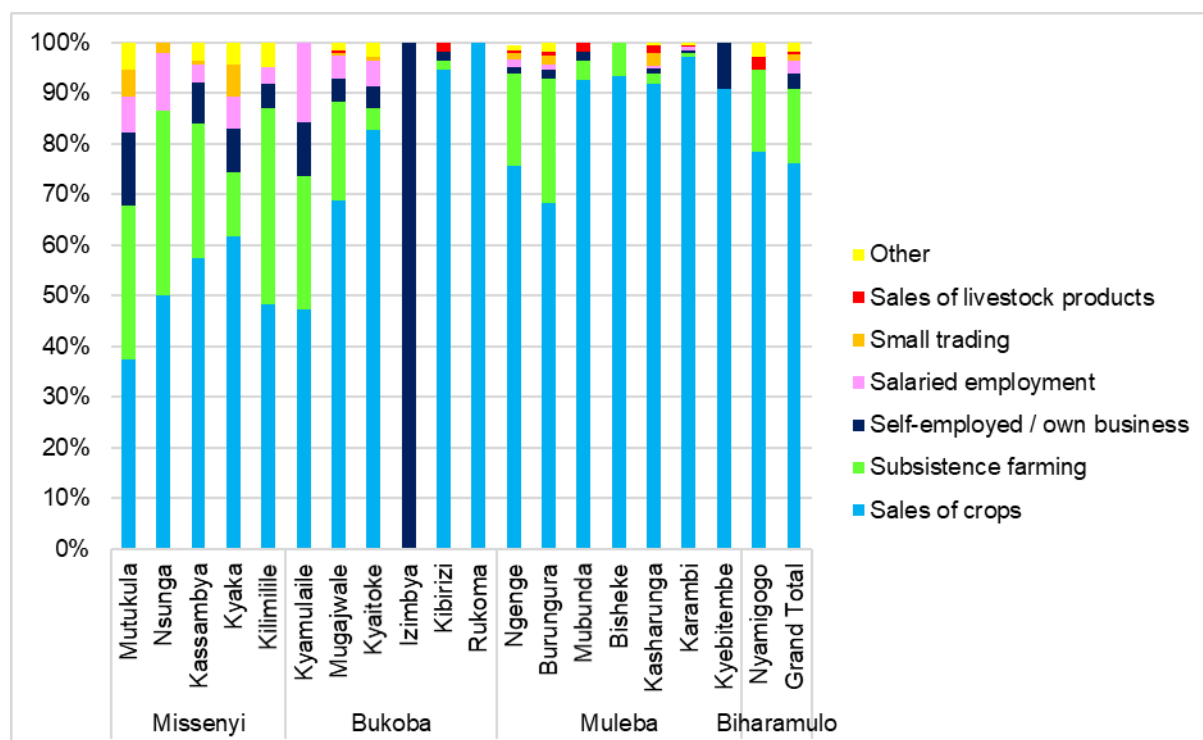


Figure 5-17: Overview of PAHs' Primary Livelihood Activities per Project Affected Ward

The primary livelihood activities of most PAHs are agriculture oriented, with an average of 76% of PAHs identifying sales of crops as their primary livelihood activity, followed by an average of 15% who mentioned subsistence farming as the primary livelihood activity. PAHs between the Mutukula Ward in the north of Missenyi District and the Kyaitoke Ward in Bukoba District appear to be more diversified in primary livelihood activities, which include

employment and trade. From Kibirizi to Nyamigogo the focus is primarily on sales of crops. The one (1) PAH in Izimbya Village identified self-employment as their primary livelihood.

Secondary Livelihood Activities

A summary of PAHs' secondary livelihood activities is presented in **Figure 5-18**.

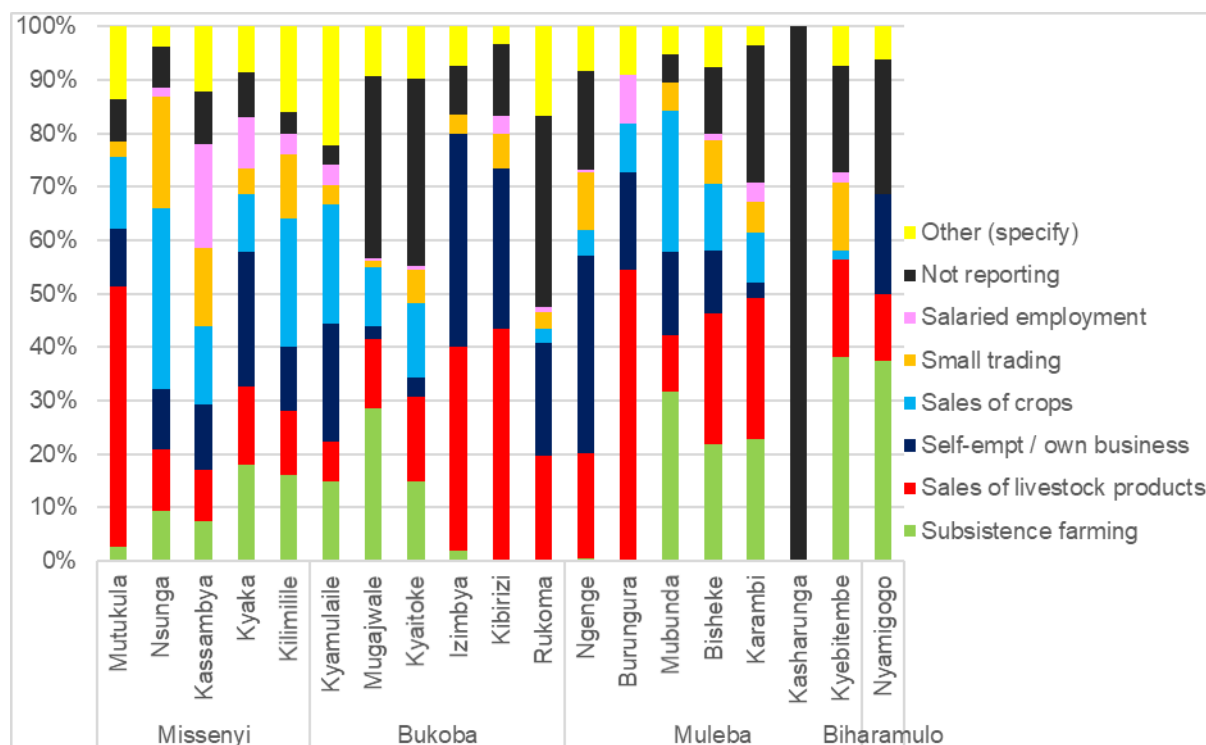


Figure 5-18: Overview of PAHs' Secondary Livelihood Activities per Project Affected Ward

The majority of PAHs practice a secondary livelihood activity, which are generally more diversified than the primary livelihood activities. A third of PAHs in the Muleba District did not report a secondary livelihood activity. In the Missenyi and Biharamulo District, 10% of PAHs do not have a secondary livelihood compared to 20% in Bukoba.

In general, PAHs who reported the sale of crops as their primary livelihood activity engaged in activities such as sales of livestock products, small trading, and salaried work to supplement livelihoods. The inverse was observed for those who primarily depended on salaries and trading for their livelihood – these PAHs tended to depend on sales of crops and subsistence farming for a secondary income.

Crop Farming

As demonstrated in the section above, crop farming is fundamental to PAHs' livelihoods, both as a food and income source. An overview of the crops cultivated by PAHs per ward is shown in Figure 5-19. This is followed by a discussion on the importance of crops per district.

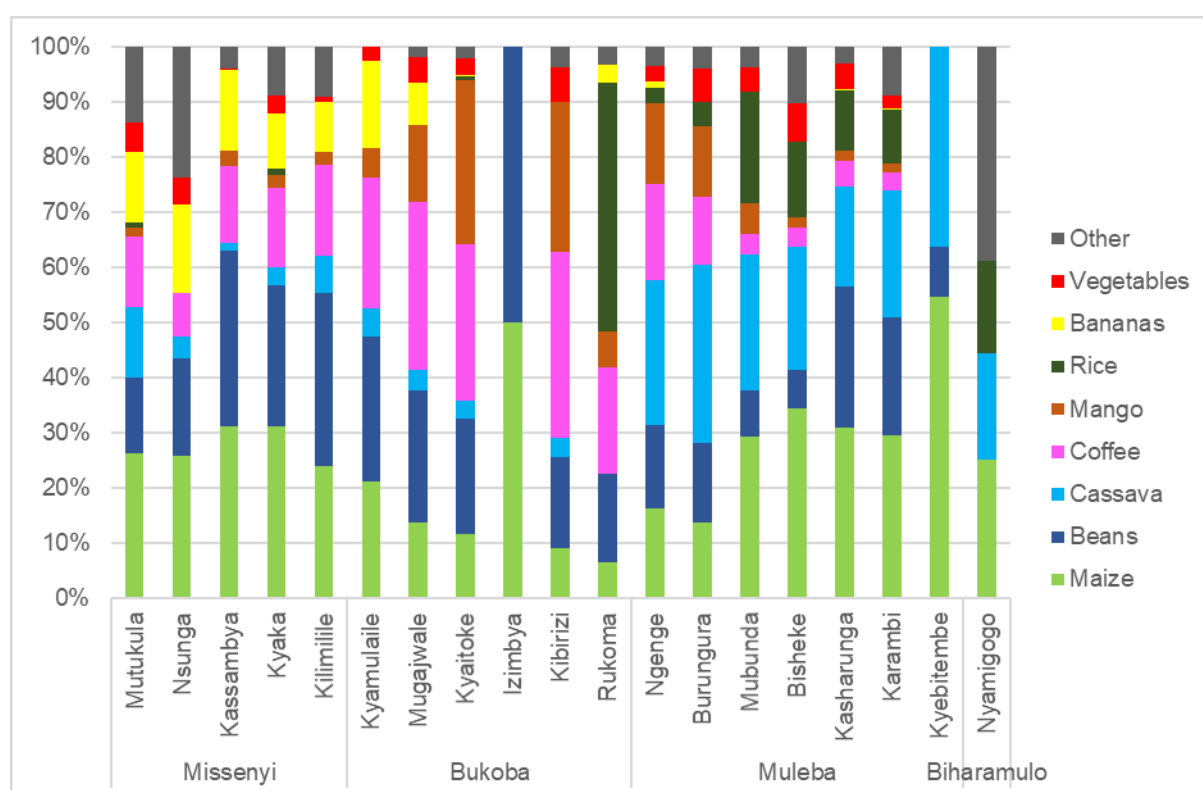


Figure 5-19: Overview of crops cultivated by PAHs by crop type per district

Missenyi District: PAHs in Missenyi District reported maize (26%), beans (22%), coffee (19%) and banana (14%) as their most important crops. These crops are also cultivated as second most important crops, in the order of maize (30%), beans (29%) and bananas (11%). These crops, apart from coffee, are important food and cash crops.

Bukoba District: Coffee is the most important crop in Bukoba District (29%). Beans is the most important crop for 22% of PAHs and maize for 13% of PAHs. The PAH in Izimbya Ward and two thirds of PAHs in Rukoma also identified coffee as a most important crop. Other important crops mentioned were carrots, cassava, okra, pawpaw, Irish potato and sweet potato. Some PAHs mentioned vanilla, yam and tomato (all under 2% total in the District). Sugarcane was mentioned by 5% of PAHs.

Muleba District: In Muleba District, the most important crops cultivated by PAHs are cassava (25%), maize (23%), beans (18%), coffee (10%) and rice (7%). Other crops mentioned as important were okra, papaya, ground nuts, potato, red sorghum, white sorghum and yam (but all under 1%).

Biharamulo District: In Biharamulo District, the important crops cultivated by PAHs are cotton (38%), maize (25%), cassava (19%) and rice (16%). Cotton was not a key area of concern among PAPs participating in FGDs because this crop was generally not affected by the pipeline corridor.

Other crops considered to be first and second most important for livelihoods included cassava, mango, pawpaw, sugar cane, tomato, potato, Irish potato, groundnuts, rice, yam, carrots and trees (mentioned by under 10% of PAHs). In addition to these crops, jack fruit,

avocado, millet, sweet potato, orange, lemon, guava, tea, vanilla, cabbage, peas and honey were mentioned as cash and food crops by PAPs participating in FGDs. Trees mentioned by PAPs during FGDs were pine, eucalyptus, and grevillea trees. Trees are sold for timber, firewood and poles.

During the SELI field work, production losses associated with planting and harvesting were discussed. Contributing factors cited were lack of money for fertilizer, crop losses due to pests and diseases, poor agricultural methods and weeds. Participants in most villages mentioned lack of access to markets and difficulty to access markets during the rainy season as additional challenges. Further, unpredictable weather patterns, impact on planting and harvesting seasons. For example, the Vuli rains only came in December 2018 and planting for the Masika rains in 2019 was expected to be delayed due to the predicted late commencement of these rains.

The planting and harvesting months for the main crops in the Kagera Region are guided by the Masika and Vuli rains. A general overview of the seasonal crop calendar is shown in Figure 5-20.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
Vuli Rain ¹⁰⁹	Vuli Harvesting							Vuli Preparing		Vuli Planting		Vuli Growing	
Masika Rain ¹⁰⁹	Masika Preparing	Masika Planting		Masika Growing			Masika Harvesting						
Rain			Masika Rain							Vuli Rain			
Hunger		No / less hunger								Hunger			
Banana	Harvesting throughout the year with more intense activity between July and December / January.												
Cassava	Harvesting throughout the year, up to eight (8) months for the cassava root to be ready.												
Coffee	Pruning, weeding, mulching.				Harvesting cycle was not discussed in detail and serves as a broad guideline.								

Figure 5-20: Crop Calendar

As is to be expected, for households whose primary livelihood activity is agriculture-based, the cycles of food and cash availability and shortages to a large extent, coincide with the seasonal crop calendar. PAHs generally experience food and cash shortages from October to January (see Figure 5-21), which matches the planting and pre-harvest period for most important food crops.

¹⁰⁹ Short-term crops including rice

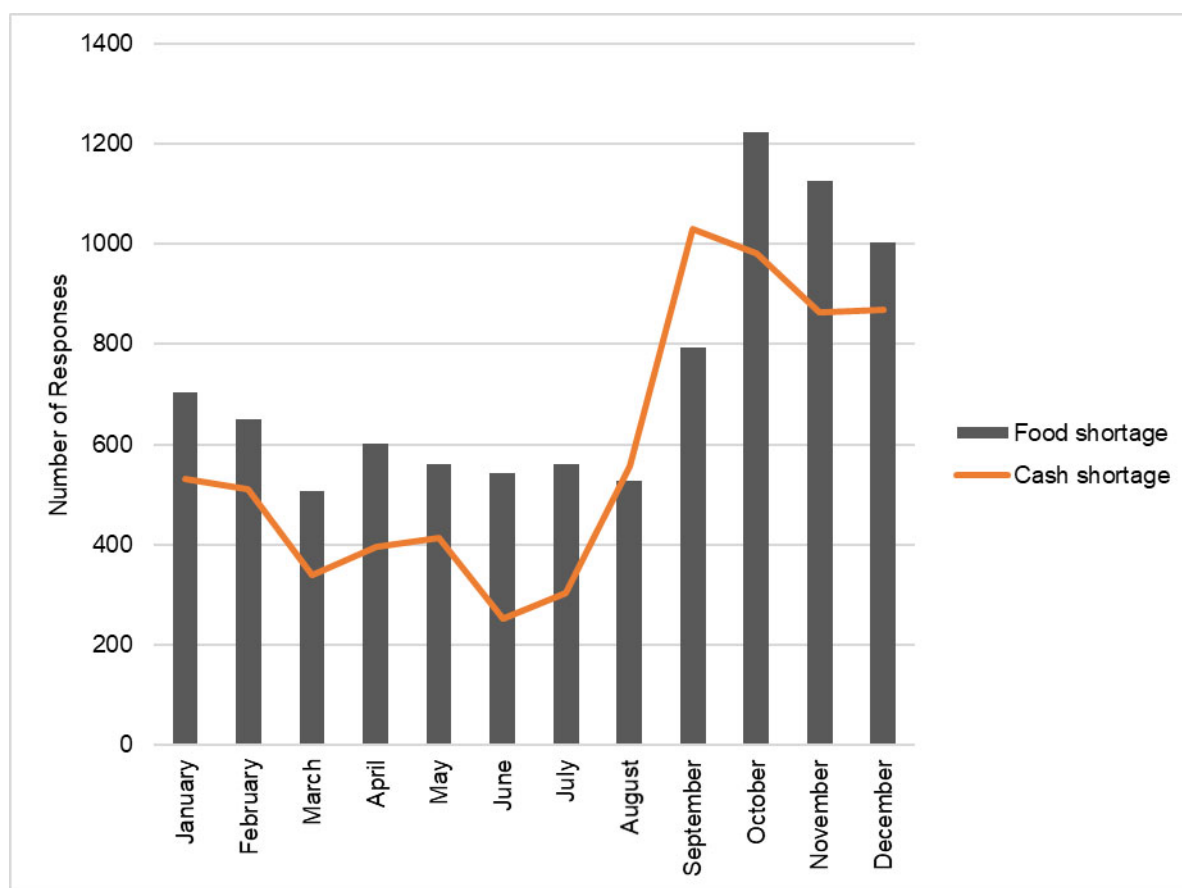


Figure 5-21: Months when Food and Cash Shortages were Experienced by PAHs

Livestock Keeping

All PAHs own some type of livestock, with the majority of households owning poultry and goats, followed by pigs and cattle. Approximately 113 PAHs reported owning sheep. Livestock mostly graze around the homestead. Chapter 8 addresses the role of livestock keeping as a part of livelihood activities.

5.5.4 Access to Public Services and Infrastructure

PAHs' access to public services and infrastructure is summarized in Table 5-5.

Table 5-5: Summary of PAH access to public services and infrastructure

District	Ward	Predominant Energy Source for Lighting	Predominant Energy Source for Cooking	Predominant Water Source	Predominant Sanitation	PAHs Access Markets	PAHs Access Health Facilities	PAHs with Access to Primary Schools
Missenyi	Mutukula	47% Electricity	53% Charcoal	43% Communal 31% Government	65% Pit latrines	98%	89% Public health center	98%
	Nsunga	40% Electricity	48% Firewood	27% Communal 31% Government	62% Pit latrines	46%	42% Public health center 40% District hospital	56%
	Kasambya	55% Paraffin	55% Charcoal	39% Stream 23% Communal	76% Flush toilets	73%	85% Public health center	53%
	Kyaka	51% Electricity	51% Firewood	51% River 13% Communal	53% Flush toilets	70%	70% Public health center	87%
	Kilimile	60% Paraffin	90% Firewood	47% Stream 16% Communal	81% Pit latrines	7%	90% Public health center	7%
Bukoba	Kyamulaile	36% Paraffin 26% Solar panel	100% Firewood	68% Stream	63% Pit latrines	21%	100% Public health center	47%
	Mugajwale	55% Paraffin	93% Firewood	58% Stream	86% Pit latrine	8%	77% Public health center	1%
	Kyaitoke	46% Paraffin	86% Firewood	31% Communal 30% Stream	86% Pit latrines	1%	79% District hospital	1%
	Izimbya	100% Electricity	100% Firewood	100% Water vendor	100% Flush toilets	100%	100% Public health center	100%
	Kiribizi	78% Paraffin	96% Firewood	60% Stream 31% Communal	93% Pit latrines	25%	53% Public health center 46% District hospital	82%
	Rukoma	56% Solar Panels	94% Firewood	63% Communal	100% Pit latrines	6%	88% Public health center	0%

District	Ward	Predominant Energy Source for Lighting	Predominant Energy Source for Cooking	Predominant Water Source	Predominant Sanitation	PAHs Access Markets	PAHs Access Health Facilities	PAHs with Access to Primary Schools
Muleba	Ngenge	60% Paraffin	94% Firewood	84% Stream	94% Pit latrines	92%	47% Public health center 41% Private sector	83%
	Burungura	44% Paraffins 39% Flashlight	97% Firewood	86% Stream	98% Pit latrines	90%	67% Public health center 31% Private sector	95%
	Mubunda	42% Paraffin 32% Flashlight	100% Firewood	82% Stream	100% Pit latrines	5%	100% Public health center	85%
	Bisheke	37% Flashlights 33% Paraffin	100% Firewood	93% Stream	100% Pit latrines	0%	100% Public health center	0%
	Kasharunga	60% Paraffin	97% Firewood	55% Stream 37% Communal	100% Pit latrines	38%	100% Public health center	90%
	Karambi	65% Paraffin	96% Firewood	91% Stream	82% Pit latrines	3%	100% Public health center	70%
	Kyebitembe	72% Paraffin	91% Charcoal	73% Stream	82% Flush toilets	0%	91% Public health center	64%
Biharamulo	Nayamigogo	68% Flashlights	97% Firewood	62% Government provided 38% Communal borehole / well	94.6% Pit latrines	22%	100% Public health center	20%

PAHs largely do not have access to grid electricity, hence must rely on paraffin and battery-operated flashlights for lighting¹¹⁰. Wood is used by most of the PAHs for cooking, except for PAHs in the Mutukula, Kasambya and Kyebitembe Wards who use charcoal. Due to the lack of piped water, it is sourced in several ways, including communal water wells, government-funded water sources, water vendors and rivers and streams – the majority of PAHs source their water primarily from the latter two sources, i.e. unprotected water sources. However, during prolonged periods of drought, government and other protected waters sources like communal wells run dry, leaving PAHs with no other option but to source water from unprotected sources such as rivers, seasonal streams and dams.

Apart from the Kasambya, Kyaka, Izimbya and Kyebitembe Wards where PAHs have waterborne (flush) toilet systems, PAHs make use of pit latrines.

All the PAHs have access to health facilities, predominantly in the form of public health centers. PAHs in Nsunga, Kyaitoke, and Kiribizi Wards also have access to a district hospital. Public health centers provide basic health services including preventative and curative care, maternity services, vaccinations, and mother-child services on an in-and-outpatient basis. The majority of PAHs used a public health center as their main access to health services. For most households it took around an hour to travel to the nearest health service center. A summary of PAHs' access to health facilities is shown in Table 5-6.

Table 5-6: Summary of PAHs' access to health facilities

District	Ward	Avg time to health facility (minutes)	Health Facility accessed		
			District hospital	Public health centre	Private sector health facility
Missenyi	Mutukula	25	7%	93%	0%
	Nsunga	50	40%	42%	17%
	Kassambya	96	13%	86%	1%
	Kyaka	30	9%	72%	20%
	Kilimilile	36	5%	90%	5%
Bukoba	Kyamulaile	46	0%	100%	0%
	Mugajwale	70	26%	69%	5%
	Kyaitoke	47	80%	20%	0%
	Izimbya	5	0%	100%	0%
	Kyaitoke	30	0%	100%	0%
	Kibirizi	119	46%	54%	0%

¹¹⁰ This differs from the regional and district profiles that cited kerosene as the predominant source of energy for lighting. This may be ascribed to the fact that the regional and district baseline profiles were sourced from GOT demographic and socio-economic profiles that was based on 2012 census data, whereas the PAH data is based on the SE survey data collected in 2018/19.

District	Ward	Avg time to health facility (minutes)	Health Facility accessed		
			District hospital	Public health centre	Private sector health facility
	Rukoma	48	13%	88%	0%
Muleba	Ngenge	69	10%	48%	42%
	Burungura	118	2%	67%	31%
	Mubunda	62	0%	100%	0%
	Bisheke	52	0%	100%	0%
	Kasharunga	39	0%	100%	0%
	Karambi	98	0%	100%	0%
	Kyebitembe	51	9%	91%	0%
Biharamulo	Nyamigogo	63	0%	100%	0%



Figure 5-22: Primary School in Nyamigogo Village (Biharamulo District)



Figure 5-23: Market in Nyamigogo Ward (Biharamulo District)

5.6 Development Support

PAHs were asked to identify their households' most important developmental requirements. In addition, during the SELI, ward and village leaders as well as PAPs and members of PACs were asked to identify the development challenges that households in the affected wards face.

Figure 5-24 shows the percentage of PAHs per ward that identified various development support requirements as their top priorities¹¹¹. This information on development support requirements will give guidance to LRP development for the Project (see Chapter 8).

¹¹¹ The results reflect the total number of times a focus area was mentioned in a ward.

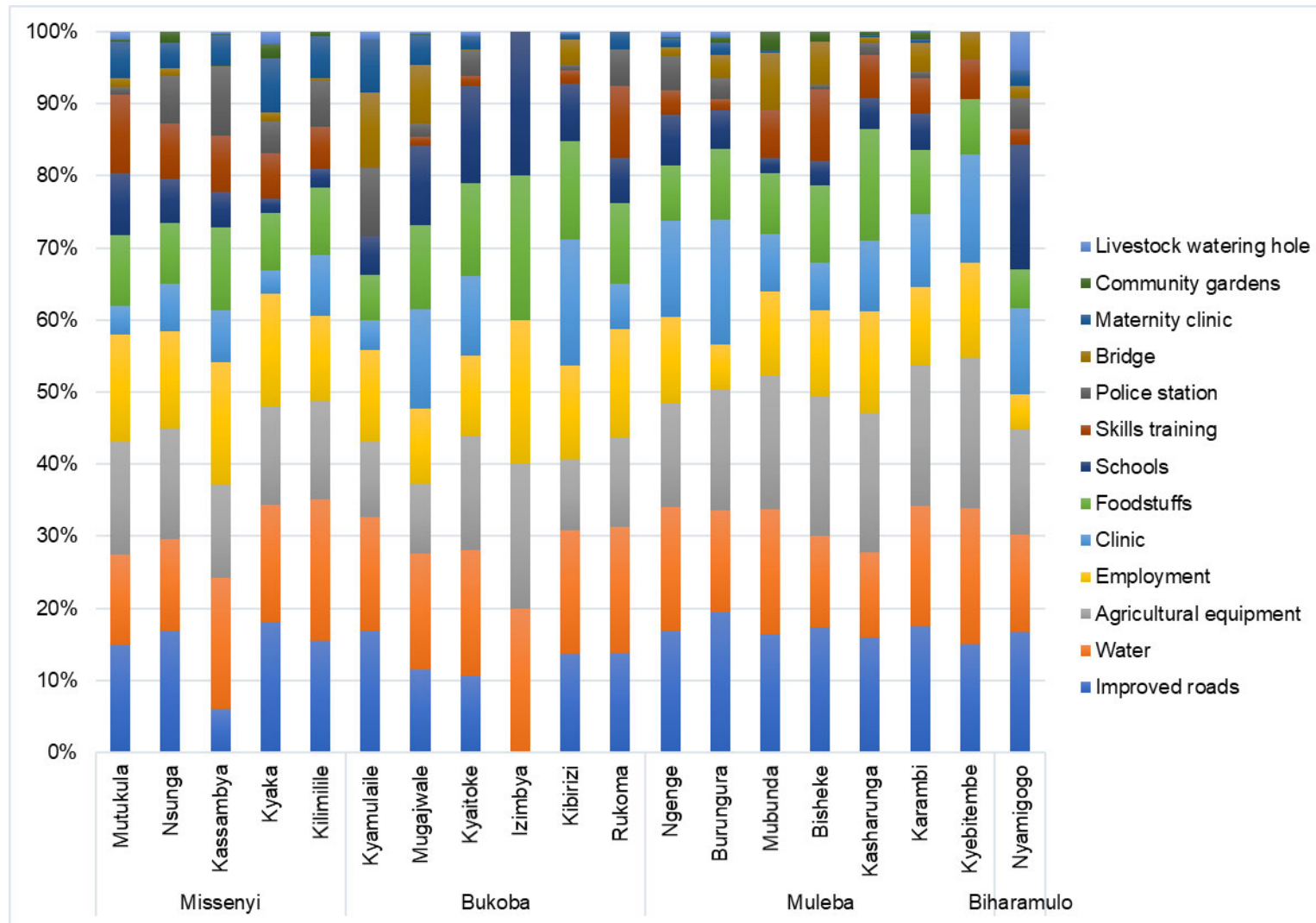


Figure 5-24: Overview of Development Requirements for PAHs (grouped) in the Kagera Region

PAHs identified access to adequate agricultural inputs as key contributors to food security and economic development. Most of the PAHs do not have the means to access improved seeds, pesticides or fertilizers. Regarding equipment, half of the PAHs indicated that they use leased line plows, and one-third make use of hand hoes. Very few of the PAHs have access to a tractor. Pastoralists identified a lack of cattle dips, access to vaccinations, medication, veterinarian services and lack of grazing land for cattle as key challenges.

In general, water scarcity and distance of water sources for household and for agricultural uses were cited as a challenge. Access to irrigation was regarded as a key development need. Concerns were raised that the Project could contribute to reduced access to water sources. The majority of PAHs listed improved roads as an important priority for development as it provided easier access to markets.

Formal employment emerges as the fourth most important development need. PAHs' livelihoods are primarily based on agriculture, livestock keeping and petty trading and very few PAH members are engaged in salaried employment.

5.7 Vulnerable Ethnic Groups

Vulnerable ethnic groups, some of whom may self-identify as Indigenous People (IPs), are defined as a group of people who are native to an area and who have distinct social and cultural characteristics. They self-identify as being a member of a distinct cultural group as well as being identifiable by others as belonging to a specific group. These vulnerable ethnic groups have a collective attachment to an area and its natural resources and practice cultural, economic, social and political customs that are separate from the dominant society. Vulnerable ethnic groups, which may include pastoralists and hunter / gatherer groups, who may be nomadic or semi nomadic, often have strong reliance upon the local environment for food (e.g. hunting or trapping animals and gathering plant foods).

The fact that many of these groups are migratory and reliant on land and natural resources for their livelihoods, combined with a lack of recognition of the vulnerabilities associated with their cultural traditions and way of life, renders them potentially vulnerable to Project-induced displacement. Historical cases of such groups in Tanzania being subjected to various forms of discrimination and marginalization such as eviction from ancestral lands to make way for large-scale crop cultivation have also been referred to in some studies¹¹². This may predispose vulnerable ethnic groups to respond negatively to the prospect of Project-related land acquisition.

5.7.1 Overview of Vulnerable Ethnic Groups amongst PAHs in Kagera Region

Data from the socio-economic surveys indicates there is only one (1) household in Kagera Region who self-identifies as belonging to the Barabaig.

¹¹² Coalition of Indigenous Pastoralist and Hunter Gatherer Organizations (2011). *Shadow Report Concerning the Situation of Economic Social and Cultural Rights of Indigenous Pastoralists and Hunter Gatherers of The United Republic of Tanzania*. Submission to the 48th Session of the United Nations Committee on Economic Social and Cultural Rights.

5.7.2 Vulnerable Ethnic Group PAH's Affected Land and Assets

The household is located in the Mutukula Village in the Missenyi District and owns one (1) affected land parcel. The Project will compensate the PAH for 0.203 acres of land and 148 economic trees. The land is held under customary tenure (unregistered) and is used for agriculture. The PAH is not physically displaced.

The household consists of three (3) members (compared to an average of 6 for other PAHs in the region). This household compares favorably with other PAHs in the region in terms of most socio-economic indicators: All adults are literate (compared to 76% for other PAHs); the household has experienced cash shortages in the past year (as have 95% of other PAHs), but not food shortage (reported by 89% of other PAHs). The household's primary source of livelihood is crop sales.

Where additional support to vulnerable ethnic households is required, these are discussed in more detail in Chapter 9.

5.8 Vulnerable Households

Based on socio-economic and demographic information obtained during the household surveys, vulnerable PAHs have been divided into three categories¹¹³, namely:

- Category 1: PAHs will be placed on the Vulnerable Household Register and qualify for in-kind assistance and livelihood support in addition to appropriate support corresponding to their specific vulnerability;
- Category 2: PAHs will qualify for in-kind assistance and livelihood support but will require further verification before being placed on the Vulnerable Household Register; and
- Category 3: PAHs are considered "at risk" and will be monitored. They are not currently classified as vulnerable as far as in-kind assistance is concerned but will qualify for livelihood support.

PAHs within categories 1 and 2 are regarded as potentially vulnerable households, i.e. 783 households are regarded as potentially vulnerable in the Kagera Region (41% of all PAHs). During RAP implementation, the 388 PAHs in category 3 will be monitored and if warranted, moved to category 1 or 2.

A summary of vulnerable PAHs per category per village is provided in the table below.

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¹¹³ See Chapter 9 for more information on the classification criteria used to identify and categorize vulnerable households.

Table 5-7: Summary of Vulnerable Households in the Kagera Region

District	Ward	Village	Vulnerable PAHs			Category 3 (at risk)
			Category 1	Category 2	Total	
Missenyi	Mutukula	Mutukula	4	10	14	18
	Nsunga	Byamutemba	1	5	6	3
		Igayaza	5	7	12	2
	Kassambya	Mabuye	12	13	25	12
		Kassambya	5	9	14	5
		Nyabihanga	14	10	24	14
	Kyaka	Bulifani	8	16	24	11
Kilimilile	Kilimilile	10	17	27	15	
Subtotal: Missenyi District			59	87	146	80
Bukoba	Kyamulaile	Kyamulaile	3	6	9	6
	Mugajwale	Kobunshwi	12	26	38	19
		Mugajwale	17	21	38	32
	Kyaitoke	Kyaitoke	16	22	38	24
	Izimbya	Izimbya	0	0	0	0
	Kyaitoke	Rugaze	0	0	0	0
	Kibirizi	Kamuli	9	11	20	12
Rukoma	Nsheshe	2	4	6	4	
Subtotal: Bukoba District			59	90	149	97
Muleba	Ngenge	Rwigembe	11	18	29	16
		Nyakanyasi	19	29	48	12
		Ngenge	8	28	36	31
		Kishuro	10	22	32	18
		Rukindo	11	19	30	13
	Burungura	Kakoma	27	49	76	17
	Mubunda	Kikagate	8	13	21	8
		Kikagate Village PS-3	0	7	7	5
	Bisheke	Milanda	0	1	1	0
		Milanda Village PS-3	6	12	18	5
	Kasharunga	Kiteme	22	24	46	36
		Kiteme Village PS-3	9	6	15	9
	Karambi	Kiguzi	23	24	47	11
		Karambi	3	16	19	9
		Kanyamika	23	20	43	8

District	Ward	Village	Vulnerable PAHs			Category 3 (at risk)
			Category 1	Category 2	Total	
	Kyebitembe	Kasindaga	0	5	5	4
Subtotal: Muleba District			180	293	473	202
Biharamulo	Nyamigogo	Nyamigogo	3	1	4	2
		Kasozibakaya	6	5	11	7
Subtotal: Biharamulo District			9	6	15	9
TOTAL: KAGERA REGION			307	476	783	388

Vulnerable households could experience the following impacts in addition to those identified in Section 5.9:

- Food and cash shortages at household level due to the loss of land to the Project; especially for PAHs who were land poor prior to the Project's arrival;
- For the elderly, their adult children and relatives may make decisions on their behalf without their consent, including relocating the elders to their children's homes, having power of attorney on the financials of the elderly PAP and possibly mismanaging the compensation they have received; and
- Women and children are at risk of being left homeless if the head of the household absconds with the compensation without constructing a permanent dwelling for the household.

Refer to Chapter 9 for more detail on Vulnerable People and the management actions proposed to minimize the Project impacts on this group of people.

5.9 Summary of Impacts

This section summarizes the impacts associated with land acquisition, land-use restrictions and relocation of households. It is divided into two subsections, dealing with temporary impacts and permanent impacts, respectively.

All land required for the Project in Tanzania will be acquired on a permanent basis by the Government of Tanzania, even for the construction corridor for the pipeline, and then provided for use to the Project under a lease arrangement.

During the construction phase the pipeline corridor will mostly be kept within a width of 30 m except for areas where additional temporary workspace is required, such as at existing infrastructure crossings and river crossings. During operations the corridor for the pipeline will be retained as 30 m. Additional land is required for the AGIs that will also remain operational over the lifespan of the project, after which these facilities will be decommissioned. After the end of the operation lease of the corridor and the AGIs the land will be returned to the Government. One of these AGIs is PS-3, located in Muleba District..

In areas categorized as Village Land prior to the Project, all 30 m of the corridor will (after the end of relevant construction activities) be restored by the Project to grassland. No development of structures, planting of deep-rooted trees or agricultural activities (e.g. crop production) will be allowed within the pipeline corridor except for grazing of wildlife and livestock crossing the corridor.

Where the 30 m-wide corridor transects areas previously categorized as Reserved Land and designated as a protected and / or designated area, including, Forest Reserves, Game Reserves and Game Controlled Areas, the Project will be allowed to restore the land cover and manage the land use to achieve equivalent biological capacity. No development of structures or agricultural activities (e.g. crop production) will be allowed in the 30m corridor apart from grazing of wildlife and livestock crossing the corridor. Deep-rooted trees will not be planted within the 10m wide strip directly above the pipeline.

The Project will always require access to the pipeline corridor during operation for inspection, maintenance and repair. The pipeline corridor will not generally be fenced, and pedestrian and livestock crossing will be generally allowed, vehicle crossing will be limited to the existing road and infrastructure crossing arrangements. AGIs will be fenced and access to these facilities will be under the strict control of the Project and public access to them will not be allowed without the Project's permission.

5.9.1 Temporary Impacts

Temporary impacts are expected to be short-term (typically lasting only for the duration of the construction phase) and can be successfully mitigated.

A summary of temporary impacts and associated management actions is reflected in Table 5-8.

Table 5-8: Summary of Temporary Impacts

Impact	Description	Management Actions
Loss of footpaths and tracks ¹¹⁴	<p>The pipeline corridor within the Missenyi District will cross 24 village tracks and one (1) cattle track, as well as the Kagera River.</p> <p>The pipeline corridor within the Bukoba District will cross ten (10) village tracks, one (1) cattle track, one (1) river, six (6) streams and one (1) swamp.</p> <p>The pipeline corridor within the Muleba District will cross 29 village tracks, five (5) cattle tracks, one (1) stream and one (1) swamp.</p> <p>The pipeline corridor in the Biharamulo District crosses five (5) village tracks.</p> <p>The pipeline will also cross a number of footpaths in the Kagera Region.</p> <p>The land associated with these crossings (except the Kagera River) is Village Land and valued in the Valuation Reports for the respective districts.</p> <p>Temporary disruption of footpaths and tracks could force people to take longer alternative routes, thus increasing traveling time and cost. In case of access to small businesses, the disruptions may cause loss of income to business owners and may affect livestock crossings which they use to access markets, graze and water sources. The main cattle routes to livestock markets are not known and may include certain areas crossed by the pipeline. If this were to occur, it would increase the time it takes people to reach these markets and increase the vulnerability of animals and herd boys if they have to find alternative, unknown routes and have to leave for the markets a few days before the intended market day.</p>	<p>Ensure that the EPC contractor is made aware of the locations of all the affected footpaths and other crossings. The contractor will be responsible for communication with PACs in a timeous manner regarding the closure of any (foot)paths and crossings and provide people with alternative routes, where required.</p>
Disruption of agricultural activities	<p>The agricultural activities of PAHs who lose agricultural land to the Project will be temporarily disrupted when PAHs are required to vacate the Project affected land. PAHs who lose a significant</p>	<p>To ensure that the agricultural production cycle is minimally disrupted, the will as far as possible Project implement the following management actions during construction:</p>

¹¹⁴ Footpaths are generally less than one (1) meter in width and have no associated reserves; tracks generally range from one (1) to two (2) meters in width and have no associated reserves and are utilized by people; and cattle tracks are up to three (3) meters and used by community and also have no associated reserves.

Impact	Description	Management Actions
	<p>portion of land to the project must acquire replacement land and resume the cultivation of crops on the replacement land. Given that agricultural production is the primary livelihood activity for the PAHs in Kagera Region, both in terms of food security and household income, this impact, if not adequately managed, may have a significantly adverse impact on PAHs.</p> <p>(Not all PAPs are eligible for replacement land – see Chapter 6).</p>	<ul style="list-style-type: none"> • Pay PAH compensation as early as possible so that they have sufficient time to locate and purchase replacement land; • Allow as far as possible PAHs to harvest crops; • Assist PAHs to secure replacement land, where required; • Assist PAHs in clearing and preparing replacement land for agricultural production, where required; • Provide transitional food support. <p>(Also see Chapter 8 on Livelihood Restoration and Chapter 9 for information on targeted support for vulnerable persons).</p>
Land speculation	<p>Land speculation occurs when people buy land with the expectation of reselling it at higher prices during a land boom. For instance, during resettlement planning, people with availability of land may choose to place it out for sale, however, inflate the prices beyond the gazette land rates for the area in anticipation of profits as PAHs will be requiring replacement land. Land speculation not associated with the Project is already happening in the Project affected Districts. Land speculation is expected to cease once the resettlement process is complete, prior to pipeline construction.</p>	<ul style="list-style-type: none"> • In partnership with the Land Office set up a help desk dedicated to dealing with PAHs seeking to purchase land; the help desk can also include a database of people willing to sell land to PAHs at the government set land rates for per District Council. • Consider the findings of the EACOP Project-Induced In-Migration Situational Analysis July 2019.
Social impacts on PACs	<p>Some of the potential impacts on the PACs include:</p> <ul style="list-style-type: none"> • Road safety risks associated with increased Project traffic between people, livestock and project vehicles; • Increased health risks from elevated noise and dust levels along the roads that will be used by Project vehicles as well as at work sites; • Potential increase in noise at PS-3 when in use; • Increased incidence of sexually transmitted infections, including HIV, associated with the Project workforce and in-migration; • Increased incidences of crime, and violence between the Project workforce, in-migrants and locals over women, natural resources and loss of assets; • Potential tension and conflict may arise between the Project 	<p>Refer to mitigation measures identified in the ESIA and Project Provisional Human Rights Impact Assessment.</p>

Impact	Description	Management Actions
	<p>and local people over unmet expectations associated with economic benefits, including jobs and procurement opportunities; and</p> <ul style="list-style-type: none"> • Potential impacts on the human rights of affected stakeholders and particularly on vulnerable groups 	
Loss of access to natural resources	<p>The pipeline corridor could cause temporary restriction of access to informal community forests. The community utilize these forests to collect natural resources such as medicinal plants, firewood, timber for construction, as well as some tree leaves that are used to feed livestock during dry season. Community members may not be able to access forests during construction for health and safety reasons, which might lead to overharvesting of resources on the edges of the forest. The intensity of the impact depends on the length of construction spreads and the duration of construction activities, and households may be forced to collect resources in other community villages, thus extending the impact outside of the Project corridor area (i.e. 30 m corridor).</p>	<ul style="list-style-type: none"> • If construction of the pipeline section will take longer than a month in forest reserves, consider allowing community members to harvest natural resources by-weekly for a few hours ((within any permits/legal restrictions). • Ensure that people continue to have access to the parts of the forest that are not affected through the establishment of designated footpaths and walkways away from the construction zone. • Implement mitigation measures set out in ESIA. • Ensure that all contractors adhere to terms laid out in EACOP Contractor Management Plans.

5.9.2 Permanent Impacts

Permanent impacts refer to physical and economic displacements that cannot be mitigated and must therefore be compensated for in accordance with local Tanzanian legislation and international good practice (see Chapter 6).

The permanent impacts for PAPs / PAHs include:

- **Physical Displacement** – the loss of residential structures will result in the physical displacement of some PAPs / PAHs. The compensation options for PAPs / PAHs that will be physically displaced are described in Chapters 6 and 7;
- **Economic Displacement** – the loss of assets such as land, non-residential structures, economic trees, and / or crops constitutes economic displacement. The compensation measures for PAPs / PAHs that are physically and economically displaced is described in Chapters 6 and 7, along with the Livelihood Restoration Plan in Chapter 8;
- **Cultural Heritage Disturbances** – graves that are located on Project-affected land will have to be relocated to other areas. Grave relocation will be undertaken in consultation with affected households and in accordance with Tanzanian legislation (see Chapter 6); and
- **Loss of Common Property Resources** – communal / public forests, grazing land, water sources and / or roads. These impacts are discussed in Chapter 6.

A summary of displacement impacts across all Project-affected villages is shown in Figure 5-29, followed by a summary of permanent impacts and associated management actions in Table 5-9. In addition, any impacts identified on the human rights of PAPs and particularly on vulnerable groups will be addressed through additional engagement and agreed mitigation measures.

District	Ward	Pipeline Length (km)	Land Parcels (No.)	Land Area (acres)	PAPs (No.)	PAHs (No.)	Vulnerable PAHs (No.)	Vulnerable Ethnic Group PAHs (No.)	PAHs Losing Dwellings	Buildings and Structures Affected (No.)			Crops Affected			Economic Trees and Other Trees (No.)	Graves
										Residential Dwellings	Other Structures	Incomplete Structures	Crops Acres	Intercropping Acre	Crops Stems		
Missenyi	Mutukula	5.49	76	41.20	62	56	14	1	2	3	7	1	2.97	4.16	6021	6769	6
	Nsunga	12.52	67	94.94	63	52	18	0	2	2	1	0	17.67	0.86	1352	18806	0
	Kassambya	9.91	184	70.53	192	163	63	0	15	15	23	3	12.64	6.13	30936	20614	30
	Kyaka	3.53	45	26.07	53	46	24	0	0	0	1	0	4.27	1.84	3753	3968	19
	Kilimilile	7.66	75	56.76	64	61	27	0	3	3	0	0	14.12	1.59	5431	4814	6
Bukoba	Kyamulaile	7.35	23	55.89	21	19	9	0	2	3	2	1	0.31	0.00	640	709	0
	Mugajwale	10.36	215	82.31	216	196	76	0	10	11	5	6	7.18	11.0	22371	16088	8
	Kyaitoke	5.93	145	47.41	146	138	38	0	12	12	16	5	1.80	14.51	7009	17955	18
	Izimbya	1.86	4	13.91	2	1	0	0	0	0	0	0	0.00	0.00	0	0	0
	Kyaitoke	2.86	3	21.63	2	1	0	0	1	1	0	0	0.00	0.00	0	0	0
	Kibirizi	7.13	71	55.24	64	55	20	0	1	1	0	2	0.93	8.80	1169	3411	3
	Rukoma	2.88	5	22.29	18	16	6	0	0	0	0	0	3.70	0.01	19	0	0
Muleba	Ngenge	20.9	484	167.81	455	410	175	0	23	24	41	3	19.23	35.6	8039	16378	42
	Burungura	6.81	139	53.54	122	113	76	0	8	8	1	1	7.72	10.15	1697	3385	10
	Mubunda	6.25	61	94.3	61	56	28	0	7	10	13	1	7.6	3.48	693	280	2
	Bisheke	2.45	26	29.58	33	30	19	0	3	4	6	0	4.62	3.06	1011	540	0
	Kasharunga	8.85	217	78.98	213	201	61	0	8	8	20	0	20.41	10.7	8191	3502	9
	Karambi	15.86	279	125.4	257	239	109	0	8	8	14	1	22.96	13.99	8458	5860	9
	Kyebitembe	1.06	13	8.14	12	11	5	0	0	0	1	0	1.92	0.17	122	35	0
Biharamulo	Nyamigogo	6.73	40	50.85	38	37	15	0	2	3	1	0	12.93	2.90	392	130	3
TOTAL: KAGERA REGION		146.39	2172	1196.97	2094	1901	783	1	107	116	152	24	162.98	128.95	107304	123244	165

Figure 5-25: Summary of Displacement Impacts per Project Affected Ward

Table 5-9: Summary of Permanent Impacts

Impact	Description	Management Actions
Loss of land	<p>The pipeline corridor traverses the Kagera Region over 174.58 km. This includes 143.39 km through villages, 0.24 km through the Minziro Forest Reserve, 7.54 km through the Ruiga River Forest Reserve and 20.41 km through the Biharamulo Game Reserve.</p> <p>The pipeline corridor affects 2,172 land parcels.</p> <p>A total of approximately 1,430 acres of land will be directly affected by the Project, of which during the valuation 162.98 acres of crop land and 128.95 acres of intercropping were recorded as affected along with areas of trees and crops counted as stems. The pipeline corridor will be permanently acquired.</p>	See Chapter 6 for compensation measures.
Loss of structures (residential and non-residential)	<p>A total of 107 of the 1,901 PAHs will lose their residential dwellings. Nine (9) of these PAHs are at PS-3 and the access road associated with this Pump Station which runs partially along and within the pipeline corridor.</p> <p>Of the structures impacted, 116 are residential structures, 152 non-residential and 24 incomplete structures.</p>	See Chapter 6 for compensation measures.
Loss of crop stems and economic trees	A total of 107,304 crop stems and 123,244 economic & other trees will be compensated by the Project.	See Chapter 6 for compensation measures.
Disturbance of graves	A total of 165 graves will have to be relocated to areas outside the pipeline corridor and associated installations.	See Chapter 6 for grave relocation procedures.

6 ELIGIBILITY, ENTITLEMENT AND COMPENSATION FRAMEWORK

6.1 Introduction

The Eligibility, Entitlement and Compensation Framework defines the eligibility criteria for affected persons to receive compensation and resettlement assistance, outlines the proposed entitlements for each type of displacement impact resulting from the Project, and determines the compensation rates and values applicable. This Chapter includes discussion on the following:

- **Eligibility:** Identifies and details “who” is eligible to receive compensation and resettlement assistance;
- **Entitlement:** Defines “what” type of compensation and assistance each category of affected person is entitled to, including livelihood restoration assistance and the entitlements of potentially vulnerable people, both of which are IFS requirements. The section includes a detailed Entitlement Framework; and
- **Valuation and Compensation:** Defines “how” various impacted assets have been valued and the levels and types of compensation that will be offered to affected persons. This includes a) the methodologies used in determining valuation and compensation under both Tanzanian regulations and b) the IFS requirements to value losses in the absence of established guidelines or prescribed compensation. As mentioned, entitlements for livelihood restoration and vulnerable people are a specific IFS requirement, and hence are included in this section.

6.2 Eligibility

As per the IFC’s definition, eligibility is “...entitlement to compensation and assistance granted to persons, groups of persons, families, or institutions due to subjection to displacement resulting from land acquisition, the revocation of rights, and / or the expropriation of property as a direct result of the Project”.

A primary requirement for eligibility is that affected persons and assets are enumerated during the resettlement asset valuation process. In other words, eligibility applies only to land and assets that were established prior to the cut-off date (see section 6.2.2). The early formulation and dissemination of eligibility criteria, together with the implementation of cut-off dates, assist in managing opportunistic claims and settlement.

The eligibility criteria applied in this RAP were determined at the onset of the Project, as outlined in the RPF, and are based on the requirements of both the IFC PS5 and national legislation. IFC PS5 defines three categories of persons who are eligible for compensation:

- Displaced persons who have formal legal rights to land and / or the assets they occupy. This includes persons with properties that are formally registered in cadastral land registers;
- Those who do not have formal legal rights to lands but do have a claim to land which is recognized under national law. This category includes persons with customary ownership / rights of occupancy of land: as set out in Section 3(1)(g) of the Land Act and Section 3(1)(h) of the Village Land Act, persons with legal rights to land include those with "...right of occupancy or recognized long-standing occupation or customary use of land" and the Village Land Regulations state that "...any villager occupying the affected land under a customary right of occupancy, including an unregistered right, is entitled to compensation."; and
- Those who have no recognizable legal right or claim to land and / or assets they occupy or use. This category would typically include persons who have constructed buildings or have cultivated crops on land owned by others, without approval and / or knowledge of the landowner. This also includes informal users on Reserved Land or General Land. Such persons may not be entitled to compensation for land, as they do not hold the formal rights to it; however, they would be entitled to compensation for assets that they own – for example, the replacement value of buildings, structures, crops, and economic trees. Eligibility for compensation does not create or confer a right where none previously existed – it does not legitimize the illegal occupation of land. The purpose of compensation is to ensure that people affected by the Project do not end up worse off as a result of displacement.

6.2.1 Eligibility Categories

The eligibility categories listed below refer to categories of affected parties and PAPs who will potentially experience various types of displacement-induced loss or increased vulnerability as a result of physical and / or economic displacement arising from the Project required land acquisition for the pipeline and AGIs in the Kagera Region.

The eligibility categories relevant to this RAP are as follows:

- Persons who hold the rights to land under legal title and the customary right of occupancy of land;
- Persons who own affected buildings and structures, such as dwellings, ancillary domestic buildings and agricultural structures;
- Assets affected by the pipeline including land parcels administrated by village councils;
- Institutions who own land and / or buildings and / or public facilities, including religious organizations and government authorities (assets belonging to such institutions may include schools, health facilities, roads, reserved land, protected areas, etc.);
- Owners of perennial and annual agricultural crops;

- Owners of seasonal (planted and harvested each season) crops;
- Owners of economic trees growing in the affected areas, either on their own land or on the land of others;
- Owners or custodians of cultural heritage assets such as graves;
- Land tenants – i.e. persons who, while not owning the land, have an agreement with landholders to use their land;
- Informal users of land – for example, persons who collect firewood, herbs and medicines, hunters, and those who gather other natural resources;
- Informal occupiers of dwellings and land;
- Informal businesses / petty traders such as market stalls, butchers, crop production facilities (e.g. milling machine shelters), cafés, hairdressers, clothing manufacture, furniture manufacture, kiosks etc.¹¹⁵;
- Pastoralists using land for grazing livestock; and
- Vulnerable persons – i.e. persons for whom loss of assets or resources, and / or disruption of access to assets or resources, may have a disproportionate impact on livelihoods, due to their vulnerability and / or livelihood dependency on these activities.

It is recognized that a PAP may fall into more than one eligibility category (e.g. for land, structures and / or crops). The asset valuation surveys coupled with the Valuation Reports (VRs) determine the eligibility categories, and associated entitlements, that apply to each identified PAP. In addition to individual PAPs who form part of PAHs there are also a few institutions, village councils (who administer communal land and assets) and other government agencies whose assets are affected.

6.2.2 Cut-off dates

A cut-off date is an important component when defining eligibility and entitlement. The cut-off date is determined by the commencement of the asset valuation surveys. Persons occupying or migrating to the Project area after the cut-off date are not eligible for compensation and / or resettlement assistance. Similarly, fixed assets (such as structures, crops and trees) established after the cut-off date will not be compensated

A cut-off date not only helps with the management of encroachment and opportunistic settlement, but it is also important to establish a fixed quantification of affected people and assets to assist with the planning and budgeting for the resettlement implementation.

For the Kagera Region, the cut-off dates¹¹⁶ were determined by the commencement of the

¹¹⁵ During the socio-economic survey, several PAHs reporting running businesses from their houses. For the purposes of this RAP, these are regarded as informal businesses.

asset valuation surveys as prescribed under the Valuation and Valuers Registration Act 2016.

The cut-off date for this valuation has been set for each village affected by the pipeline corridor. These dates, as detailed in Chapter 4 and the VR, were communicated to the PAPs in each village.

6.2.3 Validity of the Valuation

The cut-off date is representative of a 'snapshot' in time when the asset valuation surveys are undertaken. It is assumed that 'organic' change related to on-going development over time, whether planned or unplanned, will continue after the cut-off date. It is recognized that PAPs cannot be expected to put life and development plans on hold indefinitely, and it is therefore necessary to set a validity period for the cut-off date. This is also established within the Tanzanian legal framework.

In accordance with Section 52(3) of the Valuation and Valuers Registration Act, VRs must be endorsed by the CV within six (6) months from the date of "...valuation of the interest in property of the last person". The VRs are valid for a further two-year period from the date of approval by the CV.

The date for the valuation of the last person's interest for Missenyi District was 24th October 2019, Bukoba District was 24th October 2019, Muleba District was 25th September 2019 and Biharamulo District was 3rd September 2019, respectively.

6.3 Entitlements

The findings of the socio-economic and asset valuation surveys together with the eligibility criteria have been used to develop an Entitlement Framework (Table 6-1). The framework defines the compensation principles and approach by associating compensation entitlements to the type and extent of the impact and the category of the affected person.

All entitlement options were communicated at various stakeholder forums as detailed in Chapter 10, Section 10.6. The objectives of the entitlement framework are to identify:

- All categories of affected people, including property owners and land right holders, tenants, informal users, sharecroppers, grazers, nomadic pastoralists and other natural resource users, shopkeepers, vendors and other service providers, communities, and vulnerable groups;
- All types of loss associated with each category, including loss of physical assets; loss of access to physical assets; loss of wages, rental or sales earnings; loss of public infrastructure, and elements of cultural significance; and

¹¹⁶ This process was guided by the requirements of the Valuation and Valuers Registration Act, 2016.

- All types of compensation and assistance to which each category is entitled, including; compensation for or replacement of land and natural resources; compensation for structures, assets, rental income etc.; moving assistance and post-resettlement livelihood restoration support.

The Entitlement Framework, presented in Table 6-1, has been based on the outline entitlement framework developed as a component of the RPF. As the nature and extent of impacts differ in each region, this entitlement framework only contains the entitlements for land acquisition impacts emanating from the pipeline and AGIs for the Kagera Region¹¹⁷. The numbering of eligibility categories outlined in the RPF was retained for continuity purposes.

¹¹⁷ If additional displacement impacts, not covered with in the scope of this RAP's Entitlement Framework, are identified during further Project development then the Entitlements Matrix included in the RPF would be referred for eligibility and entitlements.

Table 6-1: Entitlement Framework – Kagera Region (Pipeline & AGIs)

Impact	Effect	Entitled Persons	Entitlement		
			In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹	
Land					
A1	Loss of Land with dwelling – entire plot acquired (because it falls wholly ¹²⁰ in the Project footprint or because remaining land classified as orphaned land and impacts of PAPs total land holding is likely to impact livelihoods).	Acquisition (permanent loss).	Legal holder of land. Customary holder of land. Institutional owners.	<p>In-kind Option 1:</p> <ul style="list-style-type: none"> Replacement land of equivalent size to land lost (provided land is available in the ward), with security of tenure as per IFC PS5; Payment of all transaction costs¹²¹; Disturbance allowance;¹²² and Other allowances as applicable. <p>In-kind Option 2:</p> <ul style="list-style-type: none"> Replacement land of residential plot (as a minimum) at a suitable location, with security of tenure as per IFC PS5 for construction of replacement housing (if eligible under B1 / B2 and replacement house option selected); Cash compensation for land affected and not replaced (if entitled); Project support to find replacement land; Disturbance allowance; and Other allowances as applicable. <p>OR</p> <p>Cash Option:</p> <ul style="list-style-type: none"> Compensation (if entitled) for permanently 	<p>G1</p> <ul style="list-style-type: none"> Land and Non-land-based group level livelihood restoration programs; and Individual level livelihood restoration program. <p>Where replacement agricultural land is not available in the ward an additional alternative livelihoods program will be offered to the PAP.</p>
A2	Loss of land with dwelling – only part of plot acquired (with remaining portion viable for economic use).				

¹¹⁸ See Table 6-6 for further information.

¹¹⁹ Livelihood restoration entitlements are linked to PAPs and will have a cumulative value for PAPs with multiple affected land and / or assets.

¹²⁰ Dwelling structures are on affected land within Project footprint or on land determined to be orphaned. PAPs may have additional farm / other land outside the Project footprint still considered to be viable.

¹²¹ For transaction or registration costs real figures will be established from the local authorities.

¹²² See Section 6.4.1.6.

Impact		Effect	Entitled Persons	Entitlement	
				In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹
				lost land at market rates as defined by the Registered Valuer plus 10% for transaction costs; ^{123 124} and	
				<ul style="list-style-type: none"> Allowances as above. 	
A3 & A4	Permanent loss of agricultural (crop) land where entire plot affected or remaining portion not viable (orphaned land) and impacts PAPs total land holding is likely to impact livelihoods.	Acquisition (permanent loss).	Legal holder of land Customary holder of land (PAP loses <AE OR >AFS) ¹²⁶ .	<ul style="list-style-type: none"> Compensation (if entitled) for permanently lost land at market rates as defined by the Registered Valuer plus 10% for transaction costs. 	<p>G4</p> <ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s). <p>Should the PAP be deemed vulnerable, additional entitlement will include:</p> <p>G2</p> <ul style="list-style-type: none"> Individual level livelihood restoration program(s) (as appropriate to vulnerability factors of PAP).
	or Permanent loss of agricultural (crop) land where only part of plot acquired with remaining portion (or PAP remaining landholding) still viable to support livelihoods activities ¹²⁵ or where the prior use of the land can continue post-construction).		Legal holder of land. Customary holder of land. (PAP will lose >AE BUT <AFS) and PAP not vulnerable.	<ul style="list-style-type: none"> Cash compensation (if entitled) for permanently lost land at market rates as defined by the Registered Valuer plus 10% for transaction costs; and Assistance in formalizing appropriate tenure to alternative land within in the ward (where requested and land being self-identified by PAP). 	<p>G4</p> <ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s)

¹²³ Where applicable, mortgage is deducted from pay-out and paid to lending institution. This principle applies to all assets that are encumbered with a mortgage.

¹²⁴ Market land rates defined by Registered Valuer are submitted to the Chief Valuer (MLHSD) for approval. Only approved land rates are then used in the valuations.

¹²⁵ Assumes Project Livelihood Restoration Program in place.

¹²⁶ Acre Equivalent (AE): A measure of the relative productivity of arable land in a Project-affected district. It is the ratio of two numbers: (a) the number of acres of land that a household in a district needs to sustain itself (taking into account staple crops and their prevalence in that district, as well as district-specific crop yields and average household size); and (b) the average number of acres of land per household across all Project affected districts (as reported in 2007 / 2008 agricultural census data). Average Farm Size (AFS): The average agricultural (crop) land holding per household in a district, as reported in 2007 / 2008 agricultural census data (refer to Section 6.4.2.9 for additional detail).

Impact	Effect	Entitled Persons	Entitlement	
			In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹
		Legal holder of land. Customary holder of land. (PAP will lose >AE BUT <AFS) and PAP is vulnerable.	<p>In-kind Option:</p> <ul style="list-style-type: none"> Replacement land of equivalent size to land lost (provided land is available in the ward), with security of tenure as per IFC PS5; Payment of all transaction costs¹²⁷; Disturbance allowance;¹²⁸ and Other allowances as applicable. <p>OR</p> <p>Cash Option:</p> <ul style="list-style-type: none"> Compensation (if entitled) for permanently lost land at market rates as defined by the Registered Valuer plus 10% for transaction costs;^{129 130} and Allowances as above. 	<p>G3</p> <ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s); and Individual level livelihood restoration program(s) (as appropriate to vulnerability factors of PAP). <p>Where replacement agricultural land is not available in the ward an additional alternative livelihood program will be offered to the PAP.</p>

¹²⁷ For transaction or registration costs real figures will be established from the local authorities.

¹²⁸ See Section 6.4.1.

¹²⁹ Where applicable, mortgage is deducted from pay-out and paid to lending institution. This principle applies to all assets that are encumbered with a mortgage.

¹³⁰ Market land rates defined by Registered Valuer are submitted to the Chief Valuer (MLHSD) for approval. Only approved land rates are then used in the valuations.

Impact		Effect	Entitled Persons	Entitlement	
				In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹
A5	Permanent loss of agricultural (crop) land.	Acquisition (permanent loss).	Acknowledged users but not owners (incl. tenants by occupancy) ¹³¹ . Persons with informal occupancy ¹³² .	<ul style="list-style-type: none"> No land entitlement. 	G5¹³³ <ul style="list-style-type: none"> Non-land-based group level livelihood restoration (i.e. Money Management and Entrepreneurial Training); and Where tenant PAPs have lost >AE and have self-identified and secured / have access to alternative land to farm they may be offered access to group level livelihood program.
A6	Permanent loss of grazing land.	Acquisition (permanent loss).	Legal holder of land. Customary holder of land.	<ul style="list-style-type: none"> Cash compensation for the value of the land lost at market value as defined by the Registered Valuer plus 10% transaction costs and relevant allowances. 	G4 <ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s).
A7	Permanent loss of bare farmland / vacant land. ¹³⁴	Acquisition (permanent loss).	Legal holder of land Customary holder of land.	<ul style="list-style-type: none"> Cash compensation for the farmland / vacant land at market value plus 10% for transaction costs. 	
Loss of Residence by Owner¹³⁵					
B1	Loss of primary residence and associated secondary dwellings for wives or family members (subject to criteria) – houses must be occupied and in	Permanent loss of full structures or if partial where remainder unable to be occupied.	Structure owner and occupier irrespective of legal right of occupation including "Certificate of	In-kind Option: <ul style="list-style-type: none"> Structure owners will receive replacement housing (and certain ancillary domestic structures) with standard house design¹³⁷. The design will comply with Tanzanian regulations and standards, and be of an 	G1 <ul style="list-style-type: none"> Land and non-land-based group level livelihood restoration programs; and Individual level livelihood restoration program.

¹³¹ This applies to land individually owned or possessed and rented to a third party. Tenants are recognised as having an interest, but not ownership of land under The Valuation and Valuers (General) Regulations, 2018. For land communally held and used see H5 and H6.

¹³² Informal occupiers have a presence on the property that is deemed to be permanent or semi-permanent and that precludes other competing interests.

¹³³ Tenants whose total compensation is less than T.Shs. 100,000 will not be eligible for livelihoods restoration program support.

¹³⁴ Vacant land implies land that is held and is currently unused (fallow), even if not operational at the time of the survey but does not include obviously abandoned land.

¹³⁵ Entitled PAPs will be allowed, prior to providing vacant possession to the Project, to remove all building and other materials from their existing structures (and other assets), many of which are not permanently affixed to the land.

Impact		Effect	Entitled Persons	Entitlement	
				In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹
	regular use and complete at time of valuation survey ¹³⁶ .		Occupancy".	<p>equivalent or adequate standard than the existing houses and comply with all relevant building and planning standards;</p> <ul style="list-style-type: none"> • Transaction Costs; • Cost of transportation for the removal of household goods and reusable and transportable construction materials to replacement location; • Disturbance Allowance; and • Other allowances as applicable. <p>OR Cash Option:</p> <ul style="list-style-type: none"> • Replacement cost for structure in entirety; • Where applicable, mortgage is deducted from pay out and paid to lending institution; • Disturbance Allowance; and • Other allowances as applicable. 	
B3	Ancillary structures and outbuildings, livestock kraals, wells / boreholes, septic systems, soak-aways, storehouses, perimeter walls, steps, verandas, non- tarmac access points, and the like - including incomplete structures	Permanent loss of other and ancillary structures.	Owner of infrastructure - note that this may not be the same as owner of plot.	<ul style="list-style-type: none"> • Replacement cost for entire structure, if no longer viable; • Incomplete structures to be valued at Replacement Cost considering the level of completion of the structures; • Disturbance Allowance; and • Cost of transportation for the removal of household goods and reusable and transportable construction materials to replacement location. 	N/A

¹³⁷Each replacement house will be provided with a standard single ventilated improved pit (VIP) latrine and a covered kitchen shelter.

¹³⁶Secondary residential structures and ancillary immovable homestead structures will be assessed based on functional, locational and cultural factors – refer Section 7.3.2 for full definition and context.

Impact		Effect	Entitled Persons	Entitlement	
				In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹
B4	Sanitation facilities.	Loss of sanitation facilities.	Owners of residential, commercial and other buildings. Government agencies as owners of communal facilities.	<ul style="list-style-type: none"> Replacement cost for facility / structure; Disturbance allowance; and Other allowances as applicable. <p>Where a PAP loses dwelling structures (and is eligible under Category B1) then each replacement house will be provided with a standard single ventilated improved pit (VIP) latrine. Where a PAP is eligible for more than one (1) replacement house, they can elect for either:</p> <ul style="list-style-type: none"> A standard single VIP latrine (with privacy wall at entrance) per replacement house structure; or One (1) combined VIP latrine / ablution structure, per homestead. 	N/A.
Loss of resources providing income in cash or in kind					
G1	Loss of community accessed resources such as forests, wetlands and non-economic trees.	Permanent and temporary loss but does not impact on access to remaining area.	Resource users or any persons losing an income stream associated with land alienated and including seasonal natural resource users (IFC PS5 GN 8).	<ul style="list-style-type: none"> Community level access would be maintained. Any communal land and other assets administered by the village councils directly affected by the Project are eligible for cash compensation a full replacement cost (i.e. market value plus 10% transaction costs). 	N/A
Loss of Communal or Institutionally owned structures or land					
H1	Structures and / or land owned by community or	Permanent loss or loss of	Owner of building and	For Permanent Loss: Cash Compensation¹³⁸OR Cash Option:	None.

¹³⁸ Land / structures belonging to a government, community or private institutions generally do not qualify for replacement land / structures, with the exception of churches and schools which are subject to discussion.

Impact		Effect	Entitled Persons	Entitlement	
				In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹
	institutions. These include community centers not built by government, churches, mosques and other places of worship, market stalls, private schools, private clinics etc.	access temporarily.	infrastructure.	<ul style="list-style-type: none"> Replacement cost for land and structures; Disturbance Allowance; and Other allowances as applicable. <p>Temporary loss of access:</p> <ul style="list-style-type: none"> Project assistance to maintain access on a case by case basis. 	
H4	Land used for communal purposes; particularly pastoral land used for collective grazing.	Permanent Loss	Communal owner.	<ul style="list-style-type: none"> Cash for permanent land acquired value based on market rates and cash paid to pastoralist community (entity to be nominated by the community) or if Village Land to Village Council; Allowances as applicable; and Corridor not fenced 	None.
H5	Land used for communal purposes; particularly pastoral land used for collective grazing.	Temporary loss of access.	Communal owner.	<ul style="list-style-type: none"> Project assistance in maintaining some access or alternative arrangements during the construction period; and Corridor not fenced. 	None.
H6	Roads, pathways, drainage, and electricity mains.	Permanent loss of infrastructure.	District and local government, communities, or utility company.	<ul style="list-style-type: none"> Project will have crossing agreements for the pipeline corridor with relevant authorities for roads, electricity and other such infrastructure; Any Project required works to roads within communities will be discussed and agreed with the relevant authorities and done to national road safety standards including drainage and safety crossings where required; Any diversion of services and infrastructure in conformity with national standards; and Rerouting of community pathways around project infrastructure based on assessment of loss of access. 	None.
Trees and Crops					

Impact		Effect	Entitled Persons	Entitlement				
				In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹			
I1 & I2	Loss of crops – seasonal and perennial ¹³⁹ .	Permanent loss or restriction of access.	Owner of Crops or Trees of Economic Value.	<ul style="list-style-type: none"> All PAPs who lose crops and trees of economic value as recorded on the day of valuation (i.e. present at the cut-off date) are eligible for: cash compensation for level of maturity at date of valuation of lost crops and trees of economic value adjusted to reflect the market value for the year of valuation (i.e. 2018). Disturbance allowance and other allowances as applicable. (As per IFS crops and trees have had an inflation adjustment added in the IFS valuations see section 6.4.2 below). 	<p>For landholders and physically displaced PAPs Livelihood Restoration program as described above under A to F.</p> <p>For Tenants who lose crops & trees where there is no loss of land or dwellings: Should the value of compensation be T.Shs. 100,000 or more, the following will apply:</p> <p>G6</p> <ul style="list-style-type: none"> Non-land-based or non-crop-based livelihood restoration programs (i.e. Money Management and Entrepreneurial Training, livestock program, beekeeping program); and Livelihood program will be commensurate to assets lost. <p>For Tenant PAP who lose >AE of crops and / or trees, (but are not compensated for land):</p> <p>G5</p> <ul style="list-style-type: none"> Land-based and non-land-based group level livelihood restoration programs (i.e. Money Management and Entrepreneurial Training). <p>Group Level livelihood program – where tenant PAPs have lost >AE and secured / have access to alternative land to farm.</p>			
					I3	Loss of crops – seasonal and perennial.	Permanent loss or restriction of access.	Tenant farmer.
					I4 & I5	Loss of fruit trees of economic value including fruit and timber trees.	Permanent loss or restriction of access.	Tree owner. Tree user / Tenant owner.
					I6	Loss of fruit or timber trees.	Permanent loss or restriction of access.	Communal / Village ownership.

¹³⁹ The pipeline will impact the Biharamulo Game Reserve, the Minziro National Forest Reserve (MNFR) and the Ruiga River Forest Reserve. It has been confirmed that both these all fall under the jurisdiction of Tanzanian Forest Services Agency (TFS). Government forests are valued using the royalty method because these natural forests are not typically sold.

Impact		Effect	Entitled Persons	Entitlement	
				In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹
17	Loss of agricultural assets.	Permanent loss of access.	Informal owner of all categories of crops and trees.	<ul style="list-style-type: none"> Same as I1 to I6 addressed on a case by case basis to ensure PAPs do not end up worse off as a result of Project induced displacement. 	
Cultural Assets					
J2	Graves	Permanent	Individuals or groups laying claim to a grave.	<ul style="list-style-type: none"> Relocation or sealing of grave in consultation with claimant or representative of claimants. (The project have developed a Grave Relocation Procedure. Relevant Municipal / District Health Officers are expected to oversee grave removal and relocation in conformity with health requirements. The procedure follows relevant legal requirements); and Compensation limited to the reasonable expenses incurred in the removal, transportation, reinstatement and re-interment of the grave and any placatory or expiatory rites or other ceremony¹⁴⁰. 	N/A
Vulnerable Individuals and Groups					

¹⁴⁰ Refer to Section 6.4.1.9

Impact		Effect	Entitled Persons	Entitlement	
				In-kind and / or cash compensation	Livelihood Restoration ¹¹⁸¹¹⁹
K1	Supplementary program of social support for vulnerable people entitled to any of the above benefits	Permanent or Temporary Loss	Households who are physically or economically displaced by the Project. A household will be categorized as potentially vulnerable as per the criteria detailed in Section 6.4.2.7.	<ul style="list-style-type: none"> Designated assistance as assessed on a case by case basis to ensure that vulnerable people have access to intended compensation and protection afforded them by the conditions of the RAP; Legal assistance, financial assistance and practical assistance as determined applicable on a case by case basis. 	<p>Participation in relevant livelihood restoration programs as explained in Section 6.4.2 and 8 below, i.e. depending on significance of project impact and appropriate to vulnerability factors of PAP:</p> <p>Access to group level land-based and non-land-based livelihood restoration program(s)</p> <p>AND (as appropriate)</p> <p>Individual level livelihood restoration program(s)</p>
Financial Transition					
L1	Cash windfalls	Inability of households to manage sudden cash windfalls and misallocation of funds for items other than intended ends.	All persons receiving a form of cash compensation identified through final census surveys.	<ul style="list-style-type: none"> Assistance with the opening of bank accounts¹⁴¹. 	Money management training will be provided (which will be relative to cash compensation amount);

¹⁴¹ For very small compensation payments, the Project is evaluating other payment methods for secure provision of such funds to PAPs. These would include PAPs whose total cash value of compensation is < T.Shs. 100,000. However, the minimum trigger amount for such 'very small compensation' payments is subject to ongoing analysis and discussion with potential banking partners.

6.4 Valuation and Compensation

As described in Chapter 3, the Project is obliged to meet Tanzanian legislative requirements for land acquisition, compensation and resettlement as well as applicable international financing standards, including IFC PS5 on Land Acquisition and Involuntary Resettlement. To fulfill these requirements, the valuation process has been completed in parts:

- **Rates Report.** Under the provisions of The Valuation and Valuers (General) Regulations, 2018, WK (Registered Valuers for the Project) undertook market research in Kagera. The research aimed at establishing current or up-to-date market values and replacement costs of compensable items. WK prepared and submitted a Rates Report (Whiteknights, 2018) to the CV of the Government for endorsement outlining the results of the research including the rates established for the Project in Kagera. This is an important milestone required by the regulations to ensure Project Affected Persons (PAPs) are paid compensation at current replacement cost.
- **Valuation and Compensation under Tanzanian Legislation.** This report covers compensable items under the national legislative framework; is presented as cash compensation; and is submitted for the sign-off and approval by the CV. The sign-off and approval of the VR and Compensation Schedule under Tanzanian Legislation will follow the requirements of The Valuation Regulations, 2018. For a complete overview of the valuation process, it is important that this Valuation Report is read in conjunction with the valuation report outlining in-kind and additional entitlements under the IFS.
- **Valuation for Additional Entitlements under International Financing Standards Requirements.** This report covers entitlements and eligibility for in-kind compensation such as replacement land, replacement housing, livelihood restoration and assistance to vulnerable people. These are required to ensure that the schedule of compensation satisfies additional IFS requirements and obligations. While these items are brought to the attention of the CV, they are not intended for approval by the CV as they contain Project-specific additional entitlements and compensation options in accordance with international financing requirements.

6.4.1 Valuation and Compensation under Tanzanian Legislation

To determine compensation WK completed a valuation exercise¹⁴² to calculate the value of the land parcels and unexhausted improvements / assets that are affected by the pipeline corridor within the Kagera Region and specifically the Missenyi, Bukoba, Muleba, and Biharamulo Districts.

¹⁴² This process is prescribed in the Land Act No. 4 of 1999, Village Land Act No. 5 of 1999, Land Acquisition Act of 1967, Land Regulations of 2001, the Land (Compensation Claims) Regulations, 2001, Valuation and Valuers Registration Act of 2016, Valuation and Valuers (General) Regulations of 2018, and Graves (Removal) Act of 1969.

This valuation process considered:

- Rates issued by the CV¹⁴³;
- Relevant legislation;
- Information collected as part of the field activities summarized in Section 4.3 including a market rates survey; and
- A confirmation process in coordination with the relevant DVs.

Rates issued by the CV include compensation rates for:

- Land¹⁴⁴; and
- Crops and economic trees¹⁴⁵.

During the valuation process, base rates were adjusted according to the professional opinion of the registered valuer who further considered location-specific factors and observations. Adapted rates are then validated by the relevant DVs prior to submission to the CV for approval.

The process of establishing compensation rates for the Project commenced in 2017 when compensation rates were determined for the PA sites. This included field visits and a workshop attended by DWC, government valuers from the MLHSD and DVs. The rates for the PAs were then approved by the CV on 11th April 2018. This process focused on providing rates for the PA VRs and provided valuable benchmark information for the pipeline valuations.

The process of determining compensation rates for the pipeline corridor continued with a market asset survey along the entire length of the pipeline route. The survey was conducted by certified valuers between 16th May - 20th September 2018 and aimed to establish market related compensation rates for:

- Land;
- Land titling costs;
- Buildings and structures;
- Crops and trees;
- Naturally occurring trees;

¹⁴³The base rates for land are indicative, however, the rates for crops and trees and additional approved rates relevant to the Project are prescriptive.

¹⁴⁴The rates for land are published on a regular basis by MLHSD and are based on a national survey of land rates which considers factors such as location and accessibility. The land base rates are specific for regions, districts and wards.

¹⁴⁵The rates for crops and economic trees are also published on a regular basis by MLHSD in consultation with the Ministry of Agriculture, Food Security and Cooperatives.

- Disturbance allowance;
- Accommodation (rental) allowance;
- Transport costs;
- Loss of profit; and
- Graves.

A team of senior valuers from WK visited the various impacted areas in Missenyi, Bukoba, Muleba and Biharamulo Districts to confirm the established rates and consult with the DV who validated the established rates. WK subsequently compiled the Kagera rates which were submitted to and approved by the CV.

Land ¹⁴⁶

A set protocol for ascertaining the market value of land which lies within the Project footprint was adopted. Unit land rates were established using 2016 Base land rates obtained from the office of the CV and through additional research specific to the Project¹⁴⁷. The 2016 Land Rates stipulate land rates at ward and village levels. Subsequently, consultations were made with the district valuer after she / he visited the Project area to acquaint him / herself with the nature of the land in question. Information obtained from the district valuer was augmented with market research conducted with village authorities on local land rates. Market research included obtaining information on typical land prices per acre for undeveloped land and reviewing actual agricultural land sales which had taken place recently in a given village. Data on Village Land rates was subsequently aggregated to arrive at the ward level Market Land Rate. These consultative processes and the market research enabled WK to ascertain applicable market land rates for the various wards that will be affected by the pipeline corridor and AGI¹⁴⁸ components of the Project, in Missenyi, Bukoba, Muleba and Biharamulo.

In compliance with Regulations 8, 9 and 55(4) of the Valuation Regulations, 2018, the Comparative Method of Valuation was used to establish ward land value rates from actual land transactions carried out in villages in respective wards within Missenyi, Bukoba, Muleba and Biharamulo. The Land Rates submitted to the CV for the wards in Missenyi, Bukoba, Muleba and Biharamulo districts are presented in Table 6-2.

¹⁴⁶ Additional costs for subdivision of titles, including surveying, as a result of the land acquisition process for the pipeline corridor will be dealt with during RAP implementation and at the Project cost.

¹⁴⁷ Land Value Rates research undertaken along the pipeline corridor adopted a mixed research method using the quantitative approach where statistical inferences were made. These statistical analyses were augmented with qualitative approach which was mainly founded on deductive reasoning. For more information see Appendix B.

¹⁴⁸ Main Camp and Pipe Yard 05 (MCPY-5) within Kyaka Ward and Main Camp and Pipe Yard 06 (MCPY-06) within the Karambi Ward will be built as part of the early works activities required to support the construction of the pipeline.

Table 6-2: Land Rates for Relevant Wards in Missenyi, Bukoba, Muleba and Biharamulo¹⁴⁹

Region	District	Ward	Rate per m ² for Building Plots (T.Shs.)	Rate per Acre for Agricultural Land (T.Shs.)
KAGERA	Missenyi	Mtukula	N/A	1 800 000
		Nsunga	N/A	800 000
		Kasambya	N/A	1 000 000
		Kyaka	N/A	1 000 000
		Kilimilile	N/A	700 000
	Bukoba	Kyamulaile	N/A	700 000
		Mugajwale	N/A	650 000
		Kyaitoke	N/A	650 000
		Izimbya	N/A	650 000
		Kibirizi	N/A	500 000
		Rukoma	N/A	700 000
	Muleba	Ngenge	N/A	600 000
		Mubunda	N/A	650 000
		Kasharunga	N/A	800 000
		Karambi	N/A	800 000
		Kyebitembe	N/A	750 000
		Bisheke	N/A	650 000
		Burungura	N/A	600 000
	Biharamulo	Nyarubungo	N/A	600 000
		Nyamigogo	N/A	800 000

Orphaned Land

Orphaned Land is the portion of a land parcel which remains unaffected by the Project footprint and is determined to be economically unviable. As per local legislation, the Project will manage orphaned land in the following manner:

- Where the remainder of the PAPs land parcel is 20% or less a proposal is made to acquire the orphaned land (only where the landowner agrees to relinquish it); and
- Land fragments less than 0.5 acres which are located outside of city, municipality or township administrative boundaries will be acquired under the Land Acquisition Act, 1967 which under Section 10 stipulates that 0.5 acres is the maximum orphaned land size permissible under Tanzanian Law outside a city, municipality or township.

Buildings and Structures

¹⁴⁹ Land rates in accordance with the Market Survey for Compensation Rates Report – (Nov 2018). This was submitted for approval to the CV by WK and approved in May 2019.

The Contractor's Test (Replacement Cost) Method of Valuation has been used for valuation of buildings and structures in this valuation. This is compliant with Regulation 55(3), which requires the valuer, in assessing building (structure) value rates, to take into account the cost of replacing a building or structure of similar nature, quality of construction levels of completion in works-in-progress, and size based on local market prices of materials and labor charges.

In the course of pipeline asset valuation, four (4) basic types of building / structure rates had to be established and used.

Firstly, Construction Rates categories for broad, relatively homogeneous groups of buildings or structures which share the same type of construction materials, quality and workmanship. Seven categories of buildings were designated (using codes BA to BF) as is detailed in Appendix B). The different rates categories applicable to different types of structures and their building materials that are reflected in Appendix B: Summary of Rates submitted to the chief valuer for approval (December 2018) are identified by codes such as BA.1 or BE.4 etc., all of which constitute the full (100%) value rates categories. Similarly, there are structures or other land developments like fencing, boundary or foundation walls, furrows, trenches etc., whose units of measurements are in running meters and utilize the same approach to rate fixation. For these types of structures, the applicable construction rates have also been categorized and coded as SI.1 or SJ.2 or SK.3 etc.

Secondly, there are a set of rates that have been individually adjusted from the above determined construction rates categories for specific buildings / structures. These rates are used for buildings / structures which would have otherwise been assigned to one of the above described construction rates categories but were in an incomplete state of construction at the time of valuation, and / or missing certain structural elements. This rates adjustment has been determined by deducting a cost / value proportion of the proposed full category rate (the B or S codes as reflected in Appendix B), expressed as a percentage, of a given construction rate category. For example, where an adjusted rate is 75% of BE.4 Construction Rate category the building or structure has a 25% shortfall in meeting the expected completion level in terms of visible labor and works conducted at the time of valuation which would be considered 100% complete.

Thirdly, there are Flat Construction Rates which are considered as full unit cost rates, applicable to structures that are relatively smaller and simpler with lower costs or values. These are clustered into specific flat rate groups, generally categorized as large, medium and small sizes. These rates are normally applicable to simple and small structures like kitchens, toilets or pit latrines, animal kraals, chicken coops, wells, ponds, kitchens, bath / shower rooms, etc. The Flat Construction Rates consider the use or purpose of the structure, how basic or rudimentary the construction is, construction standards, materials used as well as size (large, medium or small).

Fourthly, structures that are unique in terms of construction materials, shape or design and do not fall in any of the previously described categories. These structures require a different valuation approach that determines a cost itemization based on building materials and labor used, as informed by the structure size, design and construction standards. In these cases,

each building or structure is treated and valued separately based on a construction rate which is unique and specific to the building or structure.

Building and structure construction rates are presented in Appendix B: Summary of Rates approved by the CV (submitted November 2018, approved May 2019).

Crops and Trees

The market value of crops and trees depends on the type of crop / trees, age and growth stage and quantity of the particular crop or tree. The valuation team used the Lake Zone Crop Rates, 2012 issued by the CV.

Previously "Unlisted" crops and trees (i.e. those not on the Lake Zone Crop Rates, 2012) are found in the list of approved compensation rates (ungazetted) for additional crops and trees issued by the CV for the Project in August, 2018¹⁵⁰.

The compensation rates for such crops and trees is based on either: i) proposed compensation rates which were provided to WK by district valuers or; ii) estimates of compensation rates for trees and crops made by considering compensation rates for generic crops and trees found in the 2012 compensation schedule and making allowance for inflation between 2012 and 2018¹⁵¹.

The Lake Zone Crop Rates, 2012 and the subsequently approved rates are presented in Appendix B: Summary of Rates approved by the CV (submitted November 2018, approved May 2019).

Disturbance Allowance

Regulation 15 of The Valuation and Valuers (General) Regulations, 2018 requires disturbance allowances to be calculated by "multiplying (the) value of the interest in land by the average percentage rate of interest offered by the Central Bank on fixed deposits for 12 months at the time of loss of interest in land".

Information provided by the Bank of Tanzania indicated that the Central Bank does not offer interest on fixed deposit reserves rather it provides information on interest rates which it charges commercial banks when borrowing from the Central Bank or when investors sell government financial instruments to the Central Bank. This rate is known as the discount rate. The relevant current discount rate is 7% (seven percent) which has been effective from August 2018.

¹⁵⁰ Letter Reference No: BA.391/466/01/58 of 15th August 2018

¹⁵¹ The intercropping rate is calculated based on the underlying assumption that intercropping of the various crops is fairly distributed across the land parcel. To arrive at the inter-cropping rate, for each of the crops, the compensation rate for the individual crop is multiplied by the measured crop area and maturity level of the crop. Rates derived for the individual crops are subsequently added up and the sum of the rates is divided by the total intercropped area to arrive at the per acre intercropping rate. Where only a consolidated area for intercropping is available, the intercropping rate is calculated based on the assumption of equal weighting of individual crop areas.

In view of the prevailing disparity between the Valuation and Valuers (General) Regulations 2018 and the deposits offered by the Central Bank consultations were undertaken with the MLHSD. Following this consultation an interest rate of 7% was adopted for the valuations for the pipeline and AGIs for the project.

Accommodation Allowance

Accommodation Allowance is the market monthly rental charge per building for 36 months as per Regulation 13 of Supplement No. 11, 2018 Subsidiary Legislation to the Valuation Act, 2016. Under Regulation 12(2) of the Valuation Regulations, 2018, the owner of a property shall be entitled to accommodation allowance, only when the house built on his land is in use at the time of valuation. Market monthly rental rates are provided in Appendix B: Summary of Rates approved by the CV (submitted November 2018, approved May 2019).

Transport Costs

Transport Costs are calculated by considering the actual cost of transporting 12 tons of luggage by rail or road within 20 kms from the point of displacement as per Regulation 16 of Supplement No. 11, 2018 Subsidiary Legislation to the Valuation Act, 2016. This has been calculated to be Three Hundred Thousand Tanzanian Shillings (T.Shs. 300,000). Under Regulation 12(2) of the Valuation Regulations, 2018, the owner of a property shall be entitled to transport allowance only when the house built on his land is in use at the time of valuation¹⁵².

Loss of Profit

Loss of Profit is assessed by establishing net profit per month evidenced by audited accounts where necessary and applicable or returns evidenced by the Tanzania Revenue Authority (TRA) multiplied by 36 (i.e. Loss of Profit = Net Profit / month x 36). No eligible loss of business or business-related assets exists in the pipeline corridor or AGI footprints in Miseenyi, Bukoba, Muleba and Biharamulo, hence, in this valuation, this item is not applicable.

Graves

Compensation rates for graves were estimated as per the requirements of the Graves (Removal) Act, 1969. Section 9 of the Act states:

"The compensation payable under this section shall be limited to the reasonable expenses incurred in the removal, transportation, reinstatement and re-interment of the grave or dead body and any placatory or expiatory rites or other ceremony accompanying such removal and re-interment".

Accordingly, WK made an item by item estimate of costs related to grave removal and re-burial, depending on whether the grave has a construction around it. In general, the amount which is payable to the family in relation to "placatory or expiatory rites or other ceremony

¹⁵² Regulation 12(2) of the Valuation and Valuers (General) Regulations, 2018.

accompanying such removal and re-interment" is T.Shs. 300,000. In addition, the amount which would be paid to the District Medical Officer (DMO) or contractor who would engage the DMO is T.Shs. 200,000 per grave for an ordinary grave. For a grave with a construction, an additional T.Shs. 200,000 is required to construct the grave, making the total budget for grave removal T.Shs. 400,000, excluding T.Shs. 300,000 which is payable to the family of the deceased or custodian of the grave.

Government Land and Assets

Village Land and Associated Assets Administered by the Village Council

Village land and associated assets administered by the village council have been valued according to the valuation methodology outlined in Tanzanian Law and recorded separately in the Valuation Report.

Other Government Land and Associated Assets

Other government land and associated assets have been valued according to the valuation methodology outlined in Tanzanian law (e.g. land at market rates researched by the Project valuers and agreed with the CV), and recorded separately in the VRs, as a record of the size and value of the land and assets affected by the Project.

6.4.2 Valuation for Compensation for Additional Entitlements under International Financing Standards

The VRs for additional entitlements under IFS and their associated Compensation Schedules covers the valuation for additional entitlements, eligibility criteria for in-kind compensation (e.g. livelihood restoration, replacement housing etc.) and compensation options developed to meet these standards. While these items are brought to the attention of the CV, they are not intended for approval by the CV as they contain Project specific additional entitlements and compensation options in accordance with IFS requirements. These comprise the following items that are further described below:

- Ten percent (10%) transaction cost to the market value of land¹⁵³;
- Inflation rate of 45.44% for crops and trees valued using the 2012 crops rates¹⁵⁴ schedule;
- Disturbance allowance of seven percent (7%) to all relevant additional entitlement's compensable items¹⁵⁵;
- Orphaned land;

¹⁵³ 10% Transactions cost is applied to the value of the land as determined under Tanzanian law.

¹⁵⁴ The 2012 list of Crops Rates are provided by the Government of Tanzania.

¹⁵⁵ The seven percent (7%) interest rate applied for Disturbance Allowance is as per the Tanzanian Valuation Report. As with Tanzanian Law this interest rate is applied to any land / assets / additional entitlements provided for under IFC standards.

- Assets (i.e. crops and trees) contained within the road reserve and powerline wayleaves (proven not speculative and where they meet the eligibility criteria presented below);
- Livelihood restoration entitlements;
- Entitlements for vulnerable PAPs / households (i.e. this is limited to in-kind assistance and support and not additional cash compensation);
- Compensation options of replacement land and replacement housing for certain eligible PAPs; and
- Specific land and assets not eligible under Tanzanian Law but eligible under the IFS.

Transaction Costs Associated with Land

IFC PS5 requires loss of assets to be compensated at replacement cost. PS5 defines replacement cost as the “Market Value of the assets plus transaction costs”. Market value is the value required to allow affected communities and persons to replace lost assets with assets of similar value. A 10% transaction cost associated with acquired land will be compensated under IFS and is contained within the Valuation Report for Additional Entitlements under IFS.

Table 6-3: Land Rates & Transaction Costs for Relevant Wards in Missenyi, Bukoba, Muleba and Biharamulo

Region	District	Ward	Rate per M ² for Building Plots (T.Shs.)	Rate per Acre for Agricultural Land (T.Shs.)	10% Transaction Cost (T.Shs.)	Rate per Acre for Agricultural Land plus Transaction Cost (T.Shs.) ¹⁵⁶
Kagera	Missenyi	Mtukula	N/A	1 800 000	180 000	1 980 000
		Nsunga	N/A	800 000	80 000	880 000
		Kasambya	N/A	1 000 000	100 000	1 100 000
		Kyaka	N/A	1 000 000	100 000	1 100 000
		Kilimilile	N/A	700 000	70 000	770 000
	Bukoba	Kyamulaile	N/A	700 000	70 000	770 000
		Mugajwale	N/A	650 000	65 000	715 000
		Kyaitoke	N/A	650 000	65 000	715 000
		Izimbya	N/A	650 000	65 000	715 000
		Kibirizi	N/A	500 000	50 000	550 000
		Rukoma	N/A	700 000	70 000	770 000
	Muleba	Ngenge	N/A	600 000	60 000	660 000
		Mubunda	N/A	650 000	65 000	715 000
		Kasharunga	N/A	800 000	80 000	880 000
		Karambi	N/A	800 000	80 000	880 000
		Kyebitembe	N/A	750 000	75 000	825 000
		Bisheke	N/A	650 000	65 000	715 000
		Burungura	N/A	600 000	60 000	660 000
	Biharamulo	Nyarubungo	N/A	600 000	60 000	660 000
		Nyamigogo	N/A	800 000	80 000	880 000

Inflation Adjustment for 2012 Crop / Tree Rates

IFC PS5 - Land Acquisition and Involuntary Resettlement requires the loss of assets to be compensated at replacement cost. It defines Replacement Cost as the Market Value of the assets plus transaction costs. Market Value is the value required to allow affected communities and persons to replace lost assets, with assets of similar value. In order to

¹⁵⁶ The amount represents the Market Value of the land plus 10% transaction cost.

meet this standard and provide for replacement cost for loss of crops and trees, the 2012 Crop Compensation Schedule values have been increased using compounded inflation rates from 2013 to October 2018. Inflation rates are shown in Table 6-4. The compounded or cumulative inflation rate for the years 2013 to October 2018 is 45.44%. This inflation adjustment is applied in the IFS Compensation Schedules.

Table 6-4: Inflation Rates (2013-2018)¹⁵⁷

Year	Annual Inflation Rate (%)
2013	12.00
2014	5.75
2015	4.75
2016	6.25
2017	6.50
January - October 2018	3.6
Compounded Inflation (2013-2018)	45.44

Disturbance Allowance

The disturbance allowance (as calculated under the Tanzanian legislative framework) has been applied on the value of land and assets valued under additional entitlement under the IFS on the same basis as for land and assets under Tanzanian Law. A rate of seven percent (7%) has been utilized for this allowance.

Orphaned Land

Orphaned land is the portion of a land parcel which remains unaffected by the Project footprint and is determined to be economically unviable. As per Section 6.4.1.2, land fragments less than 0.5 acres which are located outside of city, municipality or township administrative boundaries¹⁵⁸ will be acquired under the Land Acquisition Act. Orphaned land outside of these parameters will be compensated under IFS as follows:

- Where the remainder of the PAP land parcel is 20% or less of the total land size, a proposal is made to acquire the orphaned land (only where the landowner agrees to relinquish it); and
- Where the orphaned land exceeds 0.5 acres and / or is within a municipality or township administrative boundary

¹⁵⁷Monthly Inflation rates for the year 2018 were as follows: January (4.0%), February (4.1%), March (3.9%), April (3.8%), May (3.6%), June (3.4%), July (3.3%), August (3.3%), September (3.4%) and October (3.2%). The average inflation rate for the period January to October, 2018 was therefore 3.6%. Source: National Bureau of Statistics. Corresponding inflation rates for 2013 to 2018 were: 2013 (12.0%), 2014 (5.75%), 2015 (4.75%), 2016 (6.25%) and 2017 (6.5%). The compounded cumulative inflation factor for 2013 to October 2018 is, therefore, 45.44%.

¹⁵⁸ Land Acquisition Act, 1967 Section 10-2 stipulates that the provision to acquire land of less than half an acre under Section 10-1 will not apply within any city, municipality or township administrative boundaries.

Pipeline Crossings

The pipeline corridor will cross 32 (6 under TANROADS jurisdiction and 26 under TARURA jurisdiction) and 13 powerlines in Kagera Region.

These crossings will not be converted into General Land and this land will not be leased to the Project and remain in the jurisdiction of the relevant agencies (e.g. TANROADS, TARURA, TANESCO etc.). The Project is working with the relevant agencies to agree crossing arrangements for the pipeline of this infrastructure. The valuation methodology applied to these crossings is summarized below.

Trunk and Regional Roads

It is understood that the width of trunk and regional road reserves were previously extended by the road's authority from 20 / 22.5 m to 30 m either side of the centerline to accord with the current regulations. Clarification of the status of the strip of land affected by this extension (whether this has been surveyed and compensated for by the relevant authority) was sought during the field validation process with the relevant agencies.

The existing road reserves that overlap with the pipeline corridor have been surveyed to inform the valuations. The eligibility principles outlined below guide the valuation of land and assets associated with the roads that cross the pipeline corridor:

- Only where the Roads Agency (TANROADS/TARURA) communicates in writing within the valuation timeframe, that the land within any part of the reserve (i.e. a strip between a historic and current regulated road reserve) has not been compensated may eligible land and immovable assets be placed in the VR under Tanzanian law;
- Where a PAPs' land parcel and other assets (e.g. crops) fall in the road reserve and the relevant Agency has not confirmed within the valuation timeframe that the full reserve has been compensated then land (within the relevant strip only), and assets can be placed in the VR for additional entitlements under IFS. However, land would only be placed under additional entitlements under IFS where the survey findings justify this; and
- Where the relevant Agency (i.e. TANROADS/TARURA) confirms in writing within the valuation timeframe that the road reserve has been compensated then immovable assets only (e.g. crops and trees) (not land), will be valued under additional entitlements under IFS. It is expected that the majority of roads will fall under this principle.

Other Roads – Collector, Feeder and Community Roads

Where the pipeline overlaps with collector, feeder and community road reserves¹⁵⁹, it is understood that these road reserves have generally been surveyed and / or compensated previously by the relevant authorities. In these cases, the same principles will be applied as

¹⁵⁹ Collector roads – 40 m reserve (i.e. 20 m either side of the center line), feeder road – 30 m reserve (15 m either side of the center line) and community roads - 25 m reserve (i.e. 12.5 m on either side of the center line).

for land in regional road reserves that has been surveyed and compensated – i.e. immovable assets only (e.g. crops and trees, not land), where they are not proven speculative, will be valued under additional entitlements under IFS. Assets that are proven speculative are not paid compensation.

General Principles for All Roads

Where no clear guidance from the relevant agency is available within the valuation timeframe as to the reserve width to apply, the larger of the two reserves has been applied and the difference captured under additional entitlements under IFS. For all instances, assets in reserves that are proven speculative are not eligible for compensation.

Forest and Game Reserves

The pipeline will traverse the Minziro Nature Forest Reserve (MNFR), the Ruiga River Forest Reserve and Biharamulo Game Reserve in Kagera Region. The MNFR and Ruiga River Forest Reserve falls within the management of of the Tanzania Forestry Services Agency (TFS) and the Biharamulo Game Reserve fall under the management of the Tanzania Wildlife Authority (TAWA).

Government forests are typically valued using the royalty method because these natural forests are not typically sold. The royalty charge is the foregone revenue to the Government if deprived of the trees / forest.

Powerlines

There are two agencies with responsibility for powerlines in Tanzania, TANESCO and the Rural Energy Agency (REA). It is understood for lines under the jurisdiction of TANESCO that these wayleaves are generally already compensated. For these wayleaves' immovable assets only (e.g. crops and trees) (not land), where they are not proven speculative, have been valued under additional entitlements under IFS. Assets that are proven speculative are not paid.

Wayleaves that have not been compensated, or where specific survey findings indicate that PAPs are making claims for land compensation within the wayleave, have been reviewed on a case by case basis. In these instances, if the claim is considered to be valid (and not speculative) the principles for the valuation approach applied for Trunk and Road Reserves will be adopted and in line with any communications received from the relevant Agency (i.e. TANESCO or REA). The varying dimensions for powerline wayleaves are provided for in the Urban Planning (Planning Space Standards), Regulations, 2018 as contained in Table 6-5 below.

Table 6-5: Electricity Supply Right of Way

Type of electricity supply lines in kilovolts (KV)	Right of Way in meters (ROW) / Powerline wayleave	Distance from Centre Line in meters (CW)
11	5.0	2.5
33	10.0	5.0

66	20.0	10.0
132	40.0	20.0
220	60.0	30.0
400	60.0	30.0

Livelihood Restoration Entitlement

The Project will offer livelihood restoration assistance, depending on the significance of impacts experienced by PAHs / PAPs, as per the requirements of IFS. These livelihood restoration entitlements are linked to PAPs and will have a cumulative value for PAPs with multiple affected land parcels. The criteria for livelihood restoration support are outlined in Table 6-6 and detailed in Chapter 8.

Table 6-6: Livelihood Restoration Support Criteria

Group	Replacement Land Eligibility Category ¹⁶⁰	Criteria	Type of Livelihood Restoration Support
G1	0	PAP will permanently lose access to his / her residential dwelling(s).	<ul style="list-style-type: none"> Land and non-land-based group level livelihood restoration programs; and Individual level livelihood restoration program.
G2	1a	PAP will permanently lose access to his / her land and is identified as vulnerable.	<ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s); and Individual level livelihood restoration program(s) (as appropriate to vulnerability factors of PAP).
G3	2a	PAP loses > AE (more than an Acre Equivalent of land) but < AFS (less than the average farm size) for the district and is identified as vulnerable ^{161 162} .	<ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s); and Individual level livelihood restoration program(s) (as appropriate to vulnerability factors of PAP).
G4	1 and 2	PAP will permanently lose access to his / her land in part or whole.	<ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s).
G5	2b	Tenant PAP will lose > AE of crops and / or trees, but not be compensated for land.	<ul style="list-style-type: none"> Land-based and non-land-based group level livelihood restoration programs (i.e. Money Management and Entrepreneurial Training); and Group level livelihood program – where tenant

¹⁶¹ Acre Equivalent (AE): A measure of the relative productivity of arable land in a Project-affected district. It is the ratio of two numbers: (a) the number of acres of land that a household in a district needs to sustain itself (taking into account staple crops and their prevalence in that district, as well as district-specific crop yields and average household size); and (b) the average number of acres of land per household across all Project affected districts (as reported in 2007 / 2008 agricultural census data). Average Farm Size (AFS): The average agricultural (crop) land holding per household in a district, as reported in 2007 / 2008 agricultural census data.

¹⁶² The Acre Equivalent (AE) and Average Farm Size (AFS) for Missenyi, Bukoba, Muleba and Biharamulo Districts are as follows: Missenyi: AE = 0.82 and AFS = 2.27; Bukoba: AE = 1.24 and AFS = 1.50; Muleba: AE = 1.24 and AFS = 1.41; and Biharamulo: AE = 1.31 and AFS = 2.87.

Group	Replacement Land Eligibility Category ¹⁶⁰	Criteria	Type of Livelihood Restoration Support
			PAPs have lost > AE and have self-identified and secured alternative land.
G6	3	PAP compensated for crops, trees and other assets including other non-residential structures) valued at T.Shs. 100,000 or more.	<ul style="list-style-type: none"> • Non-land-based or non-crop-based livelihood restoration programs (i.e. Money Management and Entrepreneurial Training, livestock program, beekeeping program); and • Livelihood program will be commensurate to assets lost.
(G7) PAP with a total cash value of compensation of < T.Shs. 100,000 or who receive compensation for graves only, will not be eligible for livelihood restoration programs.			

Entitlements to Vulnerable Persons

Additional resettlement assistance will be offered to vulnerable households who are physically or economically displaced by the Project. Acknowledging that no single factor / criteria automatically renders a household vulnerable, the following contributing factors were identified¹⁶³ as impeding the resilience of households to withstand external shocks / impacts, hence making them potentially vulnerable due to impacts of the land acquisition associated with the Project:

- Age of household head (including child-headed households);
- Gender of household head;
- Education level of household head;
- Household caring for one or more disabled persons¹⁶⁴;
- Percentage of household expenditure on food;
- Number of household dependents and resources to support those dependents;
- Number of children between 6-14 years not attending school; and
- A cumulative impact of one or more of the above.

Households have been categorized as vulnerable if after an accumulative analysis of the factors contributing to vulnerability, they have been identified as being potentially vulnerable. Any analysis on vulnerability also needs to recognize that vulnerability is not an absolute but rather a graded scale between destitute and varying degrees of “at risk”.

To incorporate this variability, three categories of vulnerability are provided:

¹⁶³United Nations World Food Programme, “Comprehensive Food Security & Vulnerability Analysis (CFSVA), Tanzania, 2010” and United Nations World Food Programme, “Comprehensive Food Security & Vulnerability Analysis (CFSVA), Tanzania, 2012.

¹⁶⁴Disability is the loss or limitation of opportunities to take part in the normal life of the community on an equal level with others due to physical, mental or social factors. It is an umbrella term, covering impairments, activity limitation, and participation restrictions. National Disability Policy of 2004.

- **Category 1 (Vulnerable)** households will immediately be placed on the Vulnerable Household Register (VHR) and qualify for in-kind assistance and livelihood support, in addition to appropriate additional support commensurate with their respective vulnerability;
- **Category 2 (Potentially Vulnerable)** households will qualify for in-kind assistance and livelihood support but will need further verification before being placed on the VHR; and
- **Category 3 (At risk)** households will be listed as “at risk” and must be included in any review / survey to monitor the PAPs, they will not be classified as vulnerable in terms of in-kind assistance but will qualify for livelihood support.

Chapter 9 describes the Vulnerable Persons Plan (VPP) and further details on the identification of vulnerable persons and assistance to be offered to them.

Compensation Options

In compliance with IFC PS5, only eligible households will be offered options to select between cash compensation or in-kind compensation (such as replacement housing and / or land).

Where an eligible PAP selects replacement housing and / or replacement land, the relevant cash compensation amount for the affected structures and / or land to be replaced at the Project's cost will be deducted from the PAP's cash compensation amount presented in the VR under Tanzanian Law of the Compensation Schedule. The additional entitlements under IFS Compensation Schedule contain a summary of the “Total Residual Cash Compensation” if a PAP selects replacement structures and / or land.

A general principle to emphasize throughout the options outlined below and included in the Entitlement Framework is that the Project's preference is to offer, where applicable due to Project impacts on land-based livelihoods, like-for-like compensation for affected land and assets in line with IFC PS5.

Replacement Land¹⁶⁵

The availability of land and the productivity of the land along the pipeline corridor was considered when determining both the eligibility criteria for replacement land and in assessing vulnerability, as this will affect the area of land required to produce sufficient food to sustain the PAH's. This area differs across the pipeline affected Districts and Regions based on the yields achievable for staple food crops and the average number of household members which need to be supported. From a technical analysis undertaken by DWC minimum area needed in a district to support an average sized local household above the

¹⁶⁵ Village land and land belonging to a government or private institution does not qualify for replacement land with the exception of churches and schools which are reviewed on a case-by-case basis.

poverty food line, as determined by the World Food Program¹⁶⁶ was determined. This has been termed a District Acre Equivalent Coefficient (DAEC) or Acre Equivalent (AE)¹⁶⁷.

The criteria detailed in Table 6-7 were then applied to determine eligibility for being offered the option of cash compensation or replacement agricultural land¹⁶⁸.

The Acre Equivalent (AE) and Average Farm Size (AFS) for Missenyi, Bukoba, Muleba, and Biharamulo districts are as follows:

- Missenyi: AE = 0.82 and AFS = 2.27;
- Bukoba: AE = 1.24 and AFS = 1.50
- Muleba: AE = 1.24 and AFS = 1.41; and
- Biharamulo: AE = 1.31 and AFS = 2.87.

Table 6-7: Land Eligibility Criteria and Entitlements

Replacement Land Eligibility Category	Criteria	Replacement Land Entitlements	Livelihood Restoration Support Entitlements
0	Physically displaced PAP whose dwelling affected and eligible for replacement housing.	<ul style="list-style-type: none"> • To be offered cash compensation option or in-kind replacement of land option (provided land is available in the ward), otherwise an alternative livelihood program (with cash compensation); and • Where PAP selects replacement house they will be provided with as a minimum a Residential Plot only. 	<ul style="list-style-type: none"> • Land and Non-land-based group level livelihood restoration programs; and • Individual level livelihood restoration program (G1).
1	PAP loses <AE ¹⁶⁹ OR >AFS ¹⁷⁰ (average farm size).	<ul style="list-style-type: none"> • Cash compensation for the land. 	<ul style="list-style-type: none"> • Group level land-based and non-land-based livelihood restoration program(s) (G4).
1a	PAP will lose <AE and is identified as vulnerable.	<ul style="list-style-type: none"> • Cash compensation for the land. 	<ul style="list-style-type: none"> • Group level land-based and non-land-based livelihood restoration program(s); and • Individual level livelihood restoration program(s) (as appropriate to vulnerability factors of PAP) (G2).
2	PAP will lose >AE BUT <AFS	<ul style="list-style-type: none"> • Cash compensation for the land; and 	<ul style="list-style-type: none"> • Group level land-based and non-land-based livelihood

¹⁶⁶World Food Program, 2012. Comprehensive Food Security and Vulnerability Analysis. Tanzania.

¹⁶⁷For additional information, refer to the Technical Note: Eligibility Criteria for the EACOP Pipeline, February 2019.

¹⁶⁸Land used for communal purposes, particularly grazing land used collectively will be compensated cash for the permanent loss of land acquired based on market rates plus 10% for transaction costs and compensation paid to pastoralist community (entity to be nominated by community or if Village Land to Village Council). Project assistance will be provided in maintaining some access or alternative arrangements during the construction period.

¹⁶⁹An Acre Equivalent (AE) which takes into account the productivity of the land in the district and the average number of household members for households in the district.

¹⁷⁰AFS – Average Farm Size for the district.

Replacement Land Eligibility Category	Criteria	Replacement Land Entitlements	Livelihood Restoration Support Entitlements
		<ul style="list-style-type: none"> Assistance in formalizing appropriate tenure to alternative land within in the ward (where requested and land being self-identified by PAP). 	restoration program(s) (G4).
2a	PAP will lose >AE BUT <AFS and is identified as vulnerable	<ul style="list-style-type: none"> To be offered cash compensation option or In-kind replacement of land option (provided land is available in the ward), otherwise an alternative livelihood program (with cash compensation). 	<ul style="list-style-type: none"> A group level livelihood program; or An individual level livelihood program (G3).
2b	Tenant PAP on acquired land parcels >AE who will lose crops, trees or other assets >T.Shs. 100,000 in value, but not land or residential dwellings.	<ul style="list-style-type: none"> No land entitlement. 	<ul style="list-style-type: none"> Non-land-based group level livelihood restoration (i.e. Money Management and Entrepreneurial Training); and Group Level livelihood program – where tenant PAPs have lost >AE and have self-identified and secured / have access to alternative land to farm (G5).
3	PAP compensated for crops, trees and other assets including other non-residential structures) valued at T.Shs. 100,000 or more.	<ul style="list-style-type: none"> No land entitlement. 	<ul style="list-style-type: none"> Non-land-based or non-crop-based livelihood restoration programs (i.e. Money Management and Entrepreneurial Training, livestock program, beekeeping program); and Livelihood program will be commensurate to assets lost (G6).
3a	PAP will lose crops, trees or other assets, but not land or residential dwellings and total cash value of compensation is less than T.Shs. 100 000.	<ul style="list-style-type: none"> No land entitlement. 	<ul style="list-style-type: none"> Not eligible for livelihood restoration programs (G7).

Replacement Housing

The following criteria were applied to determine eligibility for being offered the option of cash compensation or replacement housing (refer to Chapter 7 for additional detail):

- A household will permanently lose access to its residential and associated dwellings.

The type of replacement house will depend on the size of the residential dwelling it replaces. The following procedure will be applied to select the type of replacement house:

- The minimum replacement house is a unit of 25 m² (Type A). All units less than or equal to 25 m², irrespective of number of rooms, will be replaced by a Type A house. If the combined footprint of any two houses of a PAP is less than or equal to 25 m², the PAP

would be offered for these two houses one replacement Type A house and cash compensation for the smallest house;

- Type B (33 m²) will replace all residential dwellings greater than 25 m² but less than or equal to 33 m²;
- Type C (39 m²) will replace all residential dwellings greater than 33 m² but less than or equal to 39 m²;
- Type D (47 m²) will replace all residential dwellings greater than 39 m² but less than or equal to 47 m²;
- Type E (58 m²) will replace all residential dwellings greater than 47 m² but less than or equal to 58 m²;
- Type F (75 m²) will replace all residential dwellings greater than 58 m² but less than or equal to 75 m²;
- Type G (105 m²) will replace all residential dwellings greater than 75 m² but less than or equal to 105 m²; and
- Type H (145 m²) will replace all residential dwellings greater than 105 m² but less than or equal to 145 m².

Note: Floor areas exclude external living spaces / verandas.

For each replacement house, a PAP will be provided with a standard single improved latrine and a covered kitchen shelter.

Where a PAP is eligible for more than one (1) replacement house structure, they may elect for either:

- A standard single improved latrine and a covered kitchen shelter per replacement house structure; or
- One (1) ventilation improved Pit (VIP) ablution / latrine structure and a covered kitchen shelter plus store per homestead.

Structures not replaced will be eligible for cash compensation.

Note: Residential dwellings must be completed buildings and must be in regular use and not abandoned by the PAP to be eligible for replacement housing option.

The land (residential plot) associated with the replacement of residential dwellings proposed for the Project is defined in The Urban Planning (Planning Space Standards) Regulations, 2018, as outlined in Table 6-8. The average plot size to be applied for the Project is 1000 m² the midpoint of low-density residential areas. The plot size will be amended in keeping with the pre-existing condition of the housing to be replaced (i.e. high-density housing = 300 to 600m²). A standard residential plot size will be allocated in line with the Tanzanian Town

Planning Regulations of 2016 where a PAP selects the in-kind replacement housing option¹⁷¹.

Table 6-8: Standards for Residential Areas-Detached Houses and Maisonettes

No.	Type	Plot Size in per-urban area	Max. No. of Households	Max. No. of Buildings	Max. Plot Coverage %
i.	Special area and unplanned settlements (special case)	90 – 300 m ²	1	1	80
ii.	High density	301 – 600 m ²	1	2	60
iii.	Medium density	601 – 800 m ²	1	2	55
iv.	<i>Low density</i>	<i>801 – 1,200 m²</i>	<i>1</i>	<i>2</i>	<i>50</i>
v.	<i>Super Low density</i>	<i>1201 – 2,000 m²</i>	<i>1</i>	<i>2</i>	<i>45</i>

6.5 Summary of Entitlements

Table 6-9 – 6-12 provide a breakdown of the PAPs entitlements across the Kagera Region, this includes entitlement to both livelihood restoration and additional support to potentially vulnerable people.

¹⁷¹However, the residential plot will form part of the PAPs replacement land allocation (i.e. not additional to it). Where a physically displaced PAP loses less than the residential plot size they will still be eligible to be provided, as a minimum, with a residential plot.

Table 6-9: Overview of PAPs Entitlements - Missenyi District

Ward	Village / Mtaa	Landholders (No.)	Tenants (No.)	Other Government Owned Structures and / or Land	Village Owned Structures and / or Land Parcels	Forest and Game Reserves	PAPs Losing Dwellings	Buildings and Structures			Crops Acres	Crops Stems	Economic Trees (2012 Crop & Tree Rates schedule) & Other Trees (No.)	Graves (No.)	Vulnerability			Livelihood Restoration						
								Residential Dwellings	Other Structures	Incomplete Structures					CAT1	CAT2	CAT3	G1	G2	G3	G4	G5	G6	G7
Entitlement Category (as per Table 6-1)		A1 – A7	H2	G1/H1, H4, H5	B1 – B5					I1 – I7			J2	CAT1	CAT2	CAT3	G1	G2	G3	G4	G5	G6	G7	
MISSENYI																								
Mutukula	Mutukula Village	60	1	0	9	0	2	3	7	1	2.97	6021	6769	6	4	10	18	2	12	1	45	0	0	1
Nsunga	Byamutemba Village	22	2	0	3	0	0	0	0	0	15	31	1340	0	1	5	3	0	0	4	18	0	1	1
	Igayaza Village	36	1	0	2	1	2	2	1	0	2.67	1321	17466	0	5	7	2	2	7	1	24	0	1	2
Kassambya	Mabuye Village	61	15	0	2	0	7	7	9	1	4.12	9692	8460	9	12	13	12	7	15	3	31	0	9	9
	Kassambya Village	27	7	0	2	0	1	1	3	0	3.38	5262	2869	7	5	9	5	1	8	1	13	1	4	7
	Nyabihanga Village	62	16	0	6	0	7	7	11	2	5.14	15982	9285	14	14	10	14	7	10	3	39	0	10	9
Kyaka	Bulifani Village	36	15	1	2	0	0	0	1	0	4.27	3753	3968	19	8	16	11	0	15	3	15	2	6	10
Kilimilile	Kilimilile Village	61	2	0	7	0	3	3	0	0	14.12	5431	4814	6	10	17	15	3	12	11	29	0	2	5
TOTALS		365	59	1	33	1	22	23	32	4	51,67	47493	54971¹⁷²	61	59	87	80	22	79	27	214	3	33	44

¹⁷² Excludes trees affected within Minziro Nature Forest Reserve – see Section 5.5.2.

Table 6-10: Overview of PAPs Entitlements – Bukoba District

Ward	Village / Mtaa	Landholders (No.)	Tenants (No.)	Other Government Owned Structures and / or Land	Village / Mtaa Owned Structures and / or Land Parcels	Forest Reserves and Game Reserves	PAPs Losing Dwellings	Buildings and Structures			Crops Acres	Crops Stems	Economic Trees (2012 Crop & Tree Rates schedule) & Other Trees (No.) ¹⁷³	Graves (No.)	Vulnerability			Livelihood Restoration						
								Residential Dwellings	Other Structures	Incomplete Structures					CAT1	CAT2	CAT3	G1	G2	G3	G4	G5	G6	G7
Entitlement Category (as per Table 6-1)		A1 – A7	H2	G1/H1, H4, H5			B1 – B5			I1 – I7			J2											
BUKOKA																								
Kyamulaile	Kyamulaile Village	19	1	0	3	0	2	3	2	1	0.31	640	709	0	3	6	6	2	3	1	12	0	1	1
Mugajwale	Kobunshwi Village	89	5	0	5	0	3	3	0	1	4.08	10150	5685	0	12	26	19	3	31	0	40	0	4	15
	Mugajwale Village	96	24	0	6	0	7	8	5	5	3.10	12221	10403	8	17	21	32	7	32	0	53	0	11	17
Kyaitoke	Kyaitoke Village	116	29	0	7	0	12	12	16	5	1.80	7009	17955	18	16	22	24	12	24	0	71	0	8	30
Izimbya	Izimbya Village	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Kyaitoke	Rugaze Village	1	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Kibirizi	Kamuli Village	54	9	0	6	0	1	1	0	2	0.93	1169	3411	3	9	11	12	1	14	2	34	0	3	9
Rukoma	Nsheshe Village	2	15	0	3	0	0	0	0	0	3.70	19	0	0	2	4	4	0	0	0	2	0	7	8
TOTALS		378	83	0	35	0	26	28	23	14	13.92	31208	38163	29	59	90	97	26	104	3	213	0	34	80

¹⁷³ Includes trees where rates agreed with the Chief Valuer's Office in 2018 as well as additional rates approved as presented in Appendix B

Table 6-11: Overview of PAPs Entitlements – Muleba District

Ward	Village / Mtaa	Landholders (No.)	Tenants (No.)	Other Government Owned Structures and / or Land	Village / Mtaa Owned Structures and / or Land Parcels	Forest Reserves and Game Reserves	PAPs Losing Dwellings	Buildings and Structures			Crops Acres	Crops Stems	Economic Trees (2012 Crop & Tree Rates schedule) & Other Trees (No.) ¹⁷⁴	Graves (No.)	Vulnerability			Livelihood Restoration						
								Residential Dwellings	Other Structures	Incomplete Structures					CAT1	CAT2	CAT3	G1	G2	G3	G4	G5	G6	G7
Entitlement Category (as per Table 6-1)		A1 – A7	H2	G1/H1, H4, H5	B1 – B5						I1 – I7			J2										
MULEBA																								
Ngenge	Rwigembe Village	61	13	0	8	0	1	1	3	0	4.24	1146	2367	5	11	18	16	1	23	0	32	0	8	10
	Nyakanyasi Village	88	7	0	3	0	8	9	16	2	3.63	1510	4726	12	19	29	12	8	36	0	37	0	0	14
	Ngenge Village	121	9	0	3	0	5	5	5	1	7.34	2109	4112	12	8	28	31	5	33	0	73	0	3	16
	Kishuro Village	86	6	0	10	0	6	6	14	0	1.84	1517	3022	8	10	22	18	6	29	1	45	0	2	9
	Rukindo Village	54	5	0	3	0	3	3	3	0	2.18	1757	2151	5	11	19	13	3	23	0	24	0	1	7
Burungura	Kakoma Village	112	9	0	4	0	8	8	1	1	7.72	1697	3385	10	27	49	17	8	60	0	34	0	2	17
Mubunda	Kikagate Village	34	8	0	4	0	3	5	6	1	3.95	341	178	0	8	13	8	4	17	1	13	0	5	3
	Kikagate Village PS-3	17	1	0	1	0	4	5	7	0	3.65	352	102	2	0	7	5	4	3	0	10	0	0	1
Bisheke	Milanda Village	25	7	0	1	0	3	4	6	0	4.62	1011	540	0	0	13	6	3	5	1	12	0	5	5

¹⁷⁴ Includes trees where rates agreed with the Chief Valuer's Office in 2018 as well as additional rates approved as presented in Appendix B

Ward	Village / Mtaa	Landholders (No.)	Tenants (No.)	Other Government Owned Structures and / or Land	Village / Mtaa Owned Structures and / or Land Parcels	Forest Reserves and Game Reserves	PAPs Losing Dwellings	Buildings and Structures			Crops Acres	Crops Stems	Economic Trees (2012 Crop & Tree Rates schedule) & Other Trees (No.) ¹⁷⁴	Graves (No.)	Vulnerability			Livelihood Restoration						
								Residential Dwellings	Other Structures	Incomplete Structures					CAT1	CAT2	CAT3	G1	G2	G3	G4	G5	G6	G7
Entitlement Category (as per Table 6-1)		A1 – A7	H2	G1/H1, H4, H5	B1 – B5						I1 – I7			J2	CAT1	CAT2	CAT3	G1	G2	G3	G4	G5	G6	G7
Kasharunga	Kiteme Village	170	42	0	5	0	8	8	20	0	20.41	8191	3502	9	31	30	45	8	49	1	104	0	25	30
Karambi	Kiguzi Village	112	6	0	1	0	6	6	8	1	7.56	4938	4298	6	23	24	11	6	38	0	62	0	4	8
	Karambi Village	44	2	0	2	0	1	1	1	0	2.99	2028	901	0	3	16	9	1	15	0	23	0	1	6
	Kanyamika Village	80	10	0	5	0	1	1	5	0	12.41	1492	661	3	23	20	8	1	27	5	42	1	6	8
Kyebitembe	Kasindaga Village	11	1	0	0	2	0	0	1	0	1.92	122	35	0	0	5	4	0	2	1	8	0	1	0
TOTALS		1015	126	0	50	2	57	62	96	6	84.46	28211	29980 <small>175</small>	72	180	293	202	58	360	10	519	1	63	134

¹⁷⁵ Excludes trees affected within Ruiga River Forest Reserve and Biharamulo Game Reserve – see Section 5.5.2.

Table 6-12: Overview of PAPs Entitlements – Biharamulo District

Ward	Village / Mtaa	Landholders (No.)	Tenants (No.)	Other Government Owned Structures and / or Land	Village / Mtaa Owned Structures and / or Land Parcels	Forest Reserves and Game Reserves	PAPs Losing Dwellings	Buildings and Structures			Crops Acres	Crops Stems	Economic Trees (2012 Crop & Tree Rates schedule) & Other Trees (No.) ¹⁷⁶	Graves (No.)	Vulnerability			Livelihood Restoration						
								Residential Dwellings	Other Structures	Incomplete Structures					CAT1	CAT2	CAT3	G1	G2	G3	G4	G5	G6	G7
Entitlement Category (as per Table 6-1)		A1 – A7	H2	G1/H1, H4, H5			B1 – B5			I1 – I7			J2	CAT1	CAT2	CAT3	G1	G2	G3	G4	G5	G6	G7	
BIHARAMULO																								
Nyamigogo	Nyamigogo Village	8	0	0	0	1	0	0	0	0	0.22	11	10	0	3	1	2	0	3	0	5	0	0	0
	Kasozibakaya Village	20	9	0	5	0	2	3	1	0	12.71	381	120	3	6	5	7	2	3	4	13	1	6	0
TOTALS		28	9	0	5	1¹⁷⁷	2	3	1	0	12.93	392	130¹⁷⁸	3	9	6	9	2	6	4	18	1	6	0

¹⁷⁶ Includes trees where rates agreed with the Chief Valuer's Office in 2018 as well as additional rates approved as presented in Appendix B

¹⁷⁷ This is the Biharamulo Game Reserve within Nyarubungo Ward.

¹⁷⁸ Excludes trees affected within Biharamulo Game Reserve – see Section 5.5.2.

7 REPLACEMENT HOUSING AND LAND

7.1 Replacement Housing

This section provides an overview of the replacement housing strategy including an analysis of existing structures in the Kagera Region, existing structures identified as eligible for replacement, housing, and the design strategy developed for the Kagera Region. The designs for each house type and ancillary structures are presented in this report.

7.1.1 Approach to Replacement Housing Strategy and Design

A Concept Design Study¹⁷⁹ was undertaken to help identify current housing types and practices for use as the basis for the development of concept designs for replacement houses. Based on the outcomes of the Concept Design Study, detailed designs were then prepared including designs for seismic and non-seismic conditions.

The study involved a review of previous reports, background information and socio-economic data, as well as targeted field visits by the design team, which consisted of an architect and a quantity surveyor. The field visit included the identification and assessment of existing structures, semi-structured surveys and interviews, and an overall analysis of affected dwelling types, building materials, climate and vegetation. Cultural needs and practices around the design and location of dwellings and ancillary buildings were also determined.

The findings of the fieldwork and background research were drawn on to further develop concept designs, which include a range of building configurations and sizes based on locally available materials. Across the pipeline, houses range in size, and to accommodate this, eight (8) sizes have been adopted to provide incremental increases reflective of current house stocks. The designs have been developed to enable further discussion and refinement as the Project progresses.

Eligible Residential Structures

As discussed in Chapter 6, Section 6.3, a household that will permanently lose its residential and associated dwellings (or access to them), is eligible to choose from either cash compensation or replacement housing. To be eligible for a replacement housing option, dwellings must be completed and must be in regular use and not abandoned by the PAP. The type of replacement house that a PAP is entitled to depends on the size of the residential dwelling(s) it replaces. The general rule is that, of the eight (8) replacement house sizes that have been adopted, a household is eligible for the smallest size house type that has a footprint equal to or larger than the footprint of its current residential dwelling(s) affected, excluding external living spaces / verandas. The exception is where a PAP has two or more residential dwellings and the combined footprint of any two houses is less than or

¹⁷⁹ Replacement Housing Concept Design Report: Pipeline (2019) (Digby Wells Consortium).

equal to 25 m². In such cases, the PAP would be offered for these two houses, one replacement house of the smallest available size (Type A, which has a footprint of 25 m²) and cash compensation for the smallest house. In the Kagera Region, there are 107 households (owning 116 residential structures) that will be physically displaced. Of the 116 residential structures, 113 have been identified as eligible for the replacement housing in-kind compensation. There are three (3) cases where a PAH owns two (2) structures with a total combined floor space of less than 25 m². In these cases, the PAH is only entitled to one (1) replacement house (25m²) and will be compensated for the second smaller structure. Table 7-1 provides a summary of the number of PAPs losing dwellings, as well as the total number of eligible residential dwellings and the range of sizes by district and village.

In terms of use, there are 83 sleeping structures and the remainder are multi-functional residential structures. The majority (61 of 113) residential structures eligible for replacement in Kagera are less than 25m². There are a few larger houses in Kagera including one (1) eligible for a Type H (145m²) house and one (1) eligible for a Type G (105m²) house. The final number of replacement houses that will be constructed depends on the number of PAPs who choose a replacement house(s) option in preference to accepting cash compensation.

Table 7-1: Eligible Dwellings for Replacement within Kagera Region

District	Ward	Village	PAPs Losing Dwellings	Residential Dwellings Impacted	Dwellings Eligible for Replacement	Eligible Dwellings for Replacement								Other Structures	Incomplete Structures	
						House Type A 25 m ²	House Type B 33 m ²	House Type C 39 m ²	House Type D 47 m ²	House Type E 58 m ²	House Type F 75 m ²	House Type G 105 m ²	House Type H 145 m ²			
Missenyi	Mutukula	Mutukula	2	3	2	2								7	1	
	Nsunga	Byamutemba														
		Igayaza	2	2	2	2								1		
	Kassambya	Mabuye	7	7	7	3	1	1				1	1	9	1	
		Kassambya	1	1	1					1				3		
		Nyabihanga	7	7	7		2	4	1					11	2	
	Kyaka	Bulifani												1		
Kilimilile	Kilimilile	3	3	3	2	1										
Subtotal: Missenyi District			22	23	22	9	4	5	1	1	1	1	0	32	4	
Bukoba	Kyamulaile	Kyamulaile	2	3	3	2			1					2	1	
	Mugajwale	Kobunshwi	3	3	3	3									1	
		Mugajwale	7	8	8	4		2	1		1			5	5	
	Kyaitoke	Kyaitoke	12	12	12	3	5		2	1			1	16	5	
	Izimbya	Izimbya														
	Kyaitoke	Rugaze	1	1	1	1										
	Kibirizi	Kamuli	1	1	1			1							2	
Rukoma	Nsheshe															
Sub total: Bukoba District			26	28	28	13	5	3	4	1	1	0	1	23	14	
Muleba	Ngenge	Rwigembe	1	1	1		1							3		
		Nyakanyasi	8	9	9	4	3	2						16	2	
		Ngenge	5	5	5		4	1						5	1	
		Kishuro	6	6	6	4	2							14		

District	Ward	Village	PAPs Losing Dwellings	Residential Dwellings Impacted	Dwellings Eligible for Replacement	Eligible Dwellings for Replacement								Other Structures	Incomplete Structures
						House Type A 25 m ²	House Type B 33 m ²	House Type C 39 m ²	House Type D 47 m ²	House Type E 58 m ²	House Type F 75 m ²	House Type G 105 m ²	House Type H 145 m ²		
		Rukindo	3	3	3	2				1				3	
	Burungura	Kakoma	8	8	8	6	2							1	1
	Mubunda	Kikagate	3	5	5	5								6	1
		Kikagate PS-3	4	5	5	5								7	
	Bisheke	Milanda (inc. PS-3 Access Road along pipeline)	3	4	3	2					1			6	
	Kasharunga	Kiteme (inc. PS-3 Access Road along pipeline)	8	8	8	4	4							20	
	Karambi	Kiguzi	6	6	6	3	2		1					8	1
		Karambi	1	1	1	1								1	
		Kanyamika	1	1	1	1								5	
	Kyebitembe	Kasindaga												1	
Sub total: Muleba District			57	62	61	37	18	3	1	1	1	0	0	96	6
	Nyamigogo	Nyamigogo													
		Kasozibakaya	2	3	2	2								1	
Subtotal: Biharamulo District			2	3	2	2	0	0	0	0	0	0	0	1	0
TOTAL			107	116	113	61	27	11	6	3	3	1	1	152	24

The final number of replacement houses that are constructed in each category will depend on the number of PAPs who choose a replacement house(s) option in preference to accepting cash compensation.

Ancillary Structure Eligibility

Table 7-1 also shows the number of other structures (including kitchens, bathrooms, kraals, and incomplete structures) that will be affected. In terms of the entitlement framework (Chapter 6), these structures will not be replaced; PAPs will be compensated for them in cash. However, for improvement of living conditions for each replacement house, a PAP will be provided with a standard single improved latrine and a covered kitchen shelter. Where a PAP is eligible for more than one (1) replacement house structure, they may elect for either:

- A standard single improved latrine and a covered kitchen shelter per replacement house structure; OR
- One improved VIP ablution / latrine structure and a covered kitchen shelter plus store per homestead.

These latrine and kitchen structures are offered to meet the objectives and requirements within IFC PS5 relating to improving the standards of living of displaced persons. As discussed, entitlement is not linked to the existing PAP ancillary structures which will be lost but provided per replacement house / homestead.

7.1.2 Analysis of Existing Structures Affected in Kagera

Homesteads and Dwellings

In addition to the range of dwelling types and sizes identified across the region, the field visits also assessed the cultural needs and practices, numbers of occupants, uses of residential structures and other factors influencing the design, location and use of ancillary buildings.

In terms of layout, affected households range from single dwelling structures to homesteads with multiple dwelling structures positioned around shared facilities such as kitchens, storage areas and ablutions. The two (2) major categories of dwellings identified in the region are described as “traditional houses” and “modern houses”. Traditional houses are constructed of readily available local materials and represent the majority of affected structures in Kagera. These materials include grass, mud, poles, unburnt bricks, rammed (tamped) earth flooring, and roofing made from thatch. Traditional houses are generally less durable than modern structures, although materials can often be obtained without cash and therefore more easily maintained or replaced. A typical example of a traditional house is shown in Figure 7-1.



Figure 7-1: Example of Traditional House in Kagera

Some traditional dwellings have been modernized by the owners to accommodate their needs and means. Such modernizing improvements include the replacement of thatched roofs with iron roofing material and window frames filled in with glazing.



Figure 7-2: Example of traditional mud brick house with modern roof

Modern houses are those that are built with cement or burnt bricks with mortar. There are visible cracks in many structures of this type due to a lack of damp proofing. The absence of water proofing in mud and burnt brick structures has also given rise to damp walls in many structures due to capillary action.



Figure 7-3: Modern house in Kagera with stone foundation, burnt brick and CIS roof

A more detailed analysis including additional examples of both traditional and modern housing types has been undertaken as part of the concept design development and is presented in the Concept Design Report¹⁸⁰ for the Project (for the Priority Areas and Pipeline).

Ancillary Structures

For the concept design development, an analysis of the functional areas including sleeping, kitchen, toilet and ablution spaces was undertaken (and is outlined in the Concept Design Report). Of the 107 physically displaced households 23 have latrine / toilet structures that will be impacted; and 39 of the physically displaced households have a kitchen structure which will be impacted. The structures are generally of poor-quality construction from mud / wattle with thatch roofing (shown in Figure 7-4 and Figure 7-5). Most households do not have separate kitchens and PAPs cook and sleep in the same space. The total number of other structures in Kagera (which includes kitchens and toilets) is provided in Table 7-1.

For the concept design development an analysis of the functional areas including sleeping, kitchen, toilet and ablution spaces was undertaken (and is outlined in the Concept Design Report).

¹⁸⁰ Replacement Housing Concept Design Report: Pipeline (2019) (Digby Wells Consortium).



Figure 7-4: Examples of kitchens found in Kagera Region



Figure 7-5: Examples of toilet structures found in Kagera Region

7.1.3 Influence of Climate and Vegetation on Building Materials

Tanzania has a tropical climate but has regional variations due to topography. Kagera is in the Lake Victoria Basin climatological zone with average maximum and minimum temperatures ranging from 29°C to 15.4°C during hot and cold seasons respectively. Rainfall is bimodal in this zone with peaks in November and April with an average annual rainfall of 1128mm.

Local materials and the design of structures have been used to manage indoor temperatures. For example, traditional houses often have a thatched roof and are finished with mud to help to control temperature. Wind direction is also considered when orienting structures to protect them against prevailing winds.

7.1.4 Availability of materials

There are a range of building materials available. Local shops, hardware suppliers and artisans were visited in Missenyi and Muleba to identify, cost and gauge the availability and general suitability of building materials. Staff or owners were interviewed about materials, in order to establish availability and indicative prices.

Stones, aggregates, sand and sand blocks are readily available and extracted locally in Kagera. Masonry work using cement blocks is common in contemporary buildings. Local stone is used in foundation walls with mud mortar rather than sand and cement mortar observed in other regions. Cement, plumbing and electrical supplies are transported from Dar es Salaam, Tanga and Mbeya.

Appointed contractors will be encouraged to make use of local labor as much as possible. A balanced approach to standardize construction details and material specification from suppliers in combination with local material / services will also be encouraged.

7.1.5 Design

Local Architectural Style Context

The architectural style for residential dwellings and domestic structures was considered in the development of the designs for the replacement houses. The design and layout of structures reflect traditional norms and cultural practices coupled with climate and availability of materials. Traditionally, local materials and designs have been used to manage indoor temperatures. For example, thatched roofs are finished with mud to help to control heat. Wind direction is also taken into account when orienting structures to protect against prevailing winds.

The courtyard system / homestead is commonly seen across the region although there no single or uniform approach to the orientation of houses and outdoor spaces. As shown in Figure 7-6, houses are often grouped around adjacent outdoor spaces. These spaces vary in character from an open, semi- private area in front of the main house and visible by visitors to private areas enclosed by fences and connected to buildings behind the main house. Many activities take place in these areas including washing, outdoor cooking, drying and gathering of women.



Figure 7-6: Example of a private yard at the rear of a dwelling in Kagera

Buildings of the last few decades have stone foundation walls, with thin masonry walls in locally fired clay brick or concrete blocks. A reinforced concrete ring beam is used to distribute the weight of the roof evenly onto concrete block walls. Reinforced concrete columns are also used in larger buildings where there are wider spans such as verandas on large structures.

7.1.6 Concept Design Purpose and Strategy

The main purpose of developing the concept designs for replacement houses was to provide a clear methodology of fairly compensating and allocating replacement houses based on the types and designs of the existing household structures encountered.

The adopted design strategy for the proposed housing units is based on the following:

- The similarity of floor space / housing footprint sizes following the like-for-like approach for homesteads;
- Functionality and layout of the house;
- Durability and simplicity of construction; and
- Minimum floor space to accommodate comfort, health, safety, social and cultural needs.

These are based on good construction practice and documented standards and technical specifications as provided for by accredited institutions and bodies, including, but not limited to, the Tanzania Bureau of Standards (TBS), British Standards, and the International Organization for Standardization (ISO).

Geotechnical Considerations

Two (2) basic construction typologies have been developed for seismic and non-seismic zones. A registered structural engineer has prepared detailed designs for both seismic and non-seismic areas which are outlined below in Table 7-2.

The District Engineer was consulted regarding the replacement housing including building approval processes, suitability and availability of building materials. In developing appropriate designs for seismic zones consideration was also given to advice from the District Engineer.

Based on the Geological Survey of Tanzania, the Kagera region is within a seismic zone and house designs should consider potential seismic risks and adopt the seismic design. However, as the exact locations for the replacement houses in Kagera have not yet been agreed, further consideration and / or geotechnical investigations may be required when the sites are secured to determine which design is most appropriate.

Table 7-2: Key Design Technology (Seismic and Non-Seismic)

Type	Structural Element	Proposed Technology ¹⁸¹
Seismic	Substructure	<ul style="list-style-type: none"> - 200 mm deep x 500 mm wide reinforced concrete strip foundation, and foundation depth is 600 mm deep from ground level based on the assumption that the minimum soil bearing capacity is 100 KPA; - 230 mm concrete block foundation wall of 7N / mm² bonded in class (iii) mortar with T10 reinforcement (every 3rd course); - Compacted selected and approved earth fill; - 230 mm x 200 mm reinforced ground beam; and - 100 mm reinforced concrete floor slab.
	Superstructure	<ul style="list-style-type: none"> - 125 mm concrete block wall reinforced wall for external walls and internal walls with T10 reinforcement (every 3rd course); - 125 mm x 200 mm reinforced concrete ring beam at 2,100 mm height on both external and internal walls; and - 125 mm x 150 mm reinforced concrete lintel above door opening where there is no ring beam.
	Roof	<ul style="list-style-type: none"> - 100 mm x 50 mm rafters - treated pressure impregnated softwood; - 75 mm x 50 mm struts - treated pressure impregnated softwood; - 100 mm x 50 mm tie beam - treated pressure impregnated softwood; - 50 mm x 50 mm purlin - treated pressure impregnated softwood; - 100 mm x 50 mm wall plate - treated pressure impregnated standard; and - 28 gauge galvanized corrugated iron sheets.
Non-Seismic	Substructure	<ul style="list-style-type: none"> - 200 mm deep x 500 mm wide plain concrete strip foundation (no reinforcement), and foundation depth is 600 mm deep from ground level based on the assumption that the minimum soil bearing capacity is 100 KPA; - 230 mm concrete block foundation wall of 7N / mm² bonded in class (iii) mortar; - Compacted selected and approved earth fill; - 230 mm x 200 mm reinforced ground beam; and - 100 mm plain concrete floor slab.
	Superstructure	<ul style="list-style-type: none"> - 125 mm concrete block wall for external walls and internal walls; - 125 mm x 200 mm reinforced concrete ring beam at 2,100 mm height; and - 125 mm x 150 mm reinforced concrete lintel above door opening where there is no ring beam.
	Roof	<ul style="list-style-type: none"> - 100 mm x 50 mm rafters - treated pressure impregnated softwood; - 75 mm x 50 mm struts - treated pressure impregnated softwood; - 100 mm x 50 mm tie beam - treated pressure impregnated softwood; - 50 mm x 50 mm purlin - treated pressure impregnated softwood; and - 28 gauge galvanized corrugated iron sheets.

¹⁸¹ Final structural designs may vary slightly in some cases to accommodate specific site conditions, building approval conditions, material availability etc.

Building Materials and Finishes

The main materials that will be used and surface finishes are summarized as follows:

- All external and internal walls will be constructed from concrete blocks (with sand-cement plaster on both sides);
- A precast concrete windowsill will be laid underneath a metal window casement fitted with security bars;
- There will be a reinforced continuous ring beam cast in-situ connecting all external walls and some internal walls;
- The roof structure will be constructed of treated softwood (pressure impregnated) and covered with corrugated iron sheets; and
- All rooms will have cement screed floor finish, gypsum ceiling and painted walls.

7.1.7 Residential Plot Size

The land (residential plot) associated with the replacement of residential dwellings proposed for the Project is defined in The Urban Planning (Planning Space Standards) Regulations, 2018, as outlined in Table 7-3. The average plot size is likely to be 1,000 m² at the midpoint of low-density residential areas. The plot size will be determined by the context of the areas the housing will be constructed (for example may be in higher-density areas). Plot sizes will be finalized when locations have been discussed and confirmed. A standard residential plot size will be allocated in line with the Tanzanian Town Planning Regulations of 2016 where a PAP selects the in-kind replacement housing option¹⁸².

Table 7-3: Standards for Residential Areas - Detached Houses and Maisonettes

No	Type	Plot Size in per-urban area	Max. No. of Households	Max. No. of Buildings	Max. Plot coverage %
i.	Special area and unplanned settlements (special case)	90 – 300 m ²	1	1	80
ii.	High density	301 – 600 m ²	1	2	60
iii.	Medium density	601 – 800 m ²	1	2	55
iv.	Low density	801 – 1200 m ²	1	2	50
v.	Super Low density	1201 – 2000 m ²	1	2	45

Once the location of residential plots has been confirmed, the residential plot sizes will be finalized, depending on location and further engagement. Consideration will be given to PAPs' specific circumstances and individual choices to be finalized during the entitlement briefings phase. Factors to be considered include:

¹⁸² However, the residential plot will form part of the PAPs replacement land allocation (i.e. not additional to it). Where a physically displaced PAP loses less than the residential plot size they will still be eligible to be provided with a residential plot as a minimum.

- PAPs may have existing suitable land outside the corridor within the ward on which to build their replacement house. The site would be subject to technical checks by the Project and needs to be within the area etc.;
- The distance of residential plots to existing and (where relevant) replacement farmlands; and
- Taking into consideration the number of replacement houses required in Kagera Region, it is likely there will be a mix of land which will be utilized including infill development and vacant land adjacent to existing urban areas and / or PAP homesteads in more rural areas.

7.1.8 Ancillary Structures and Utilities

Kitchen Structures

A standard entitlement per replacement house includes a covered kitchen (open) structure with a raised cooking platform and fireplace with a metal flue. The key considerations in the development of these designs were:

- The use of a safe roof-covered cooking space at a safe height (where children cannot be injured), in a well-ventilated space with safe means of escape;
- Uncontrolled flames under a timber roof structure that is not controlled by a hood and a flue are a significant fire hazard;
- The fear of fire spreading to outside vegetation, a secure space to store cooking utensils, and convenience, which were stated by PAPs as the main reasons for cooking indoors; and
- Providing a separate safe covered space for PAPs to cook, to reduce the risks associated with cooking fires being moved inside housing structures.

Households eligible for more than one (1) replacement house can select a covered kitchen structure with an enclosed storeroom per homestead instead of the standard entitlement of a covered kitchen (open) structure per replacement house.

Latrine / Ablution Structures

The key considerations in the development of these designs were:

- Improvement of living conditions and welfare of households;
- Provision of a facility which is durable and safe, and can be maintained; and
- Cultural considerations.

Water

Rainwater will be harvested on all house roofs with a series of PVC gutters and downpipes. It will be stored in tanks supported on block work platforms approximately 30 cm above ground level to allow adequate clearance for a bucket to be placed under the tap. Due to climatic variation with a notable dry season, rainwater collection will only be effective during the rainy season.

Electricity

Each replacement house will be provided with a simple solar panel to provide sufficient power for basic lighting, television (TV), and USB ports. A minimum of 400-Watt solar panel with one (1) battery and solar inverter of 500 VA will be adequate for lighting nine (9) bulbs and one (1) socket for a TV and two (2) USBs for charging mobile phones.

7.1.9 Mitigation of Climatic Conditions

When positioning structures on the selected resettlement plots, the following will be considered to mitigate against adverse climatic conditions:

- The orientation of the building to ensure minimal impacts that may be caused by wind flow directions and rainfall impacts;
- Avoiding dampness seeping from the ground which may affect the structure, hence selecting appropriate construction materials and adopting appropriate construction technology; and
- Installing gutters and tanks to collect rainwater.

7.1.10 Replacement House and Ancillary Structure Designs

House Designs

Eight (8) replacement house designs have been developed to accommodate the full range of houses that may be replaced across the pipeline. They range in size from the smallest at 25 m² (Type A) to the largest houses at 145 m² (Type H).

Table 7-4 provides details on the floor space and rooms for each type. The four smallest houses (Types A, B, C and D) have alternative floor layouts to allow a choice of floor plans for the PAP. The smallest house (Type A) has three (3) alternative layouts and Type B, C and D have two (2) alternative floor plans each. The Type A3 House includes the option of a small room specifically designed to accommodate small livestock (separate from sleeping and cooking areas) which is common practice in some areas along the pipeline corridor.

Table 7-4: Houses Types and Eligible Dwellings in Kagera

House	Eligible Dwellings in Kagera	Floor Space	Sub – Type	Number of Rooms
House Type A	61	25m ²	A1	2
			A2	3
			A3	3
House Type B	27	33m ²	B1	3
			B2	4
House Type C	11	39m ²	C1	3
			C2	4
House Type D	6	47m ²	D1	4

			D2	5
House Type E	3	58m ²	E	5
House Type F	3	75m ²	F	5
House Type G	1	105m ²	G	6
House Type H	1	145m ²	H	8

In the Kagera Region there are 107 households (who inhabit 116 residential structures) that will be physically displaced and have been identified as eligible for the replacement housing in-kind compensation. As shown above, there are eight (8) types of houses that PAPs are eligible for in Kagera. The majority (61) of the 113 residential structures eligible for replacement qualify for a Type A (25m²) house, as they have floor spaces that are less than 25 m².

A full description including floor plans, elevations and three (3) dimensional views of all eight (8) house types (A-H) and the alternative floor plans are provided below. The eight (8) eligible structures (Types A to H) in Kagera are presented in Figures 7-7 to 7-15.

In some circumstances, specific solutions may need to be developed to ensure that impacts on dwellings are managed appropriately. This includes those cases where multiple residential structures and / or the layout of a homestead will significantly change as a result of the project. Specific solutions may also need to be developed for those structures which, although are not connected to an operational water and sewerage system, have made provision for internal bathrooms and may require further consideration.

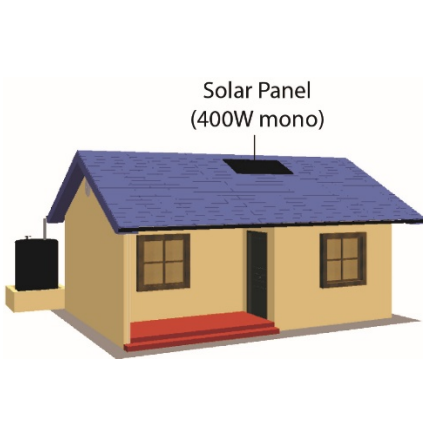

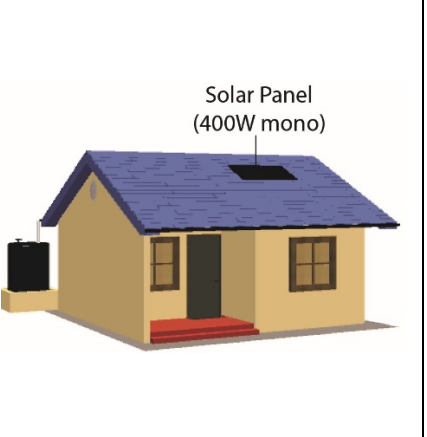
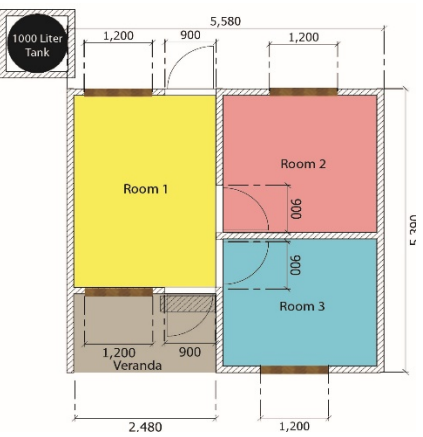
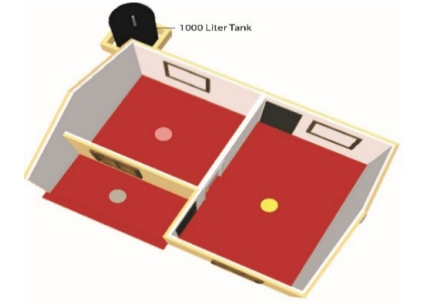

House Type A 25m ² (There are sixty-one (61) structures eligible for Type A replacement houses in Kagera Region)																	
<p>Description: Type A is the smallest of the house types at 25 m². This house is well lit with natural light through four (4) windows which allows for good cross ventilation, two (2) external doors and a small covered veranda. Type A1 has two (2) rooms and 'A2' has three (3) rooms as shown below.</p>																	
<p>Eligibility: Replaces all units less than or equal to 25 m² irrespective of the number of rooms. If the combined footprint of any two (2) houses of a PAP is less than or equal to 25 m² (House Type A) the PAP would be offered for these two (2) houses one (1) replacement House Type A and cash compensation for the smallest house.</p>																	
<p>Alternative: An eligible PAP can choose from one (1) of two (2) floor plans. House Type A1 has two (2) rooms and House Type A2 has the same floor area at 25 m² with three (3) rooms.</p>																	
A1 – 25m ² (2 Rooms)		A2 - 25m ² (3 Rooms)															
																	
	<p style="text-align: center;">Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>14.33 m²</td> </tr> <tr> <td>Room 2</td> <td>10.64 m²</td> </tr> <tr> <td>Veranda</td> <td>3.55 m²</td> </tr> </table>	Room 1	14.33 m ²	Room 2	10.64 m ²	Veranda	3.55 m ²		<p style="text-align: center;">Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>9.2 m²</td> </tr> <tr> <td>Room 2</td> <td>8.0 m²</td> </tr> <tr> <td>Room 3</td> <td>8.0 m²</td> </tr> <tr> <td>Veranda</td> <td>3.6 m²</td> </tr> </table>	Room 1	9.2 m ²	Room 2	8.0 m ²	Room 3	8.0 m ²	Veranda	3.6 m ²
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Veranda	3.55 m ²																
Room 1	9.2 m ²																
Room 2	8.0 m ²																
Room 3	8.0 m ²																
Veranda	3.6 m ²																

Figure 7-7: House Type A : A1 and A2 Layout

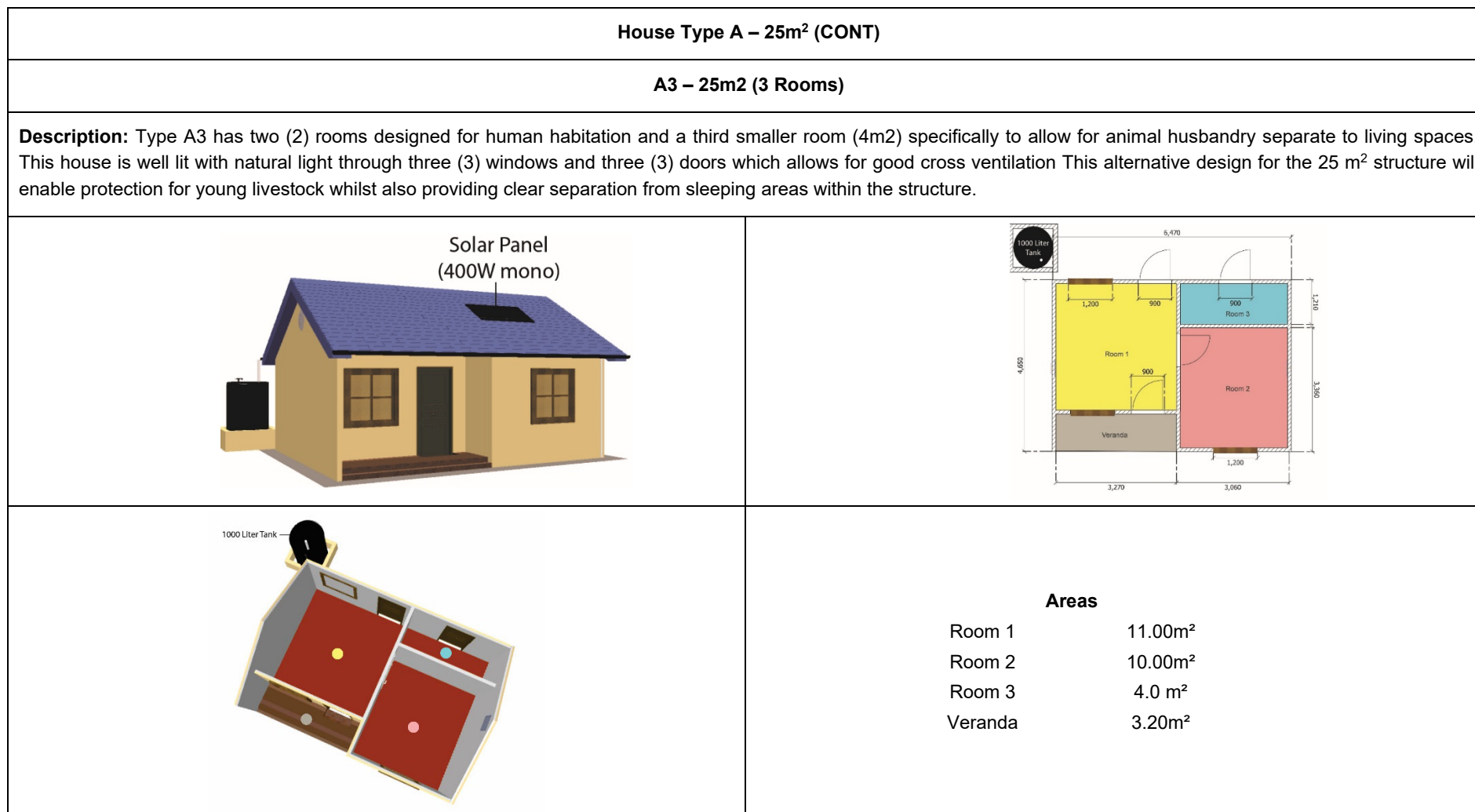


Figure 7-8: House Type A : A3 Layout

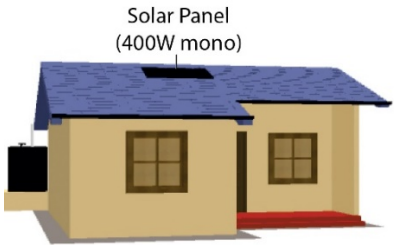

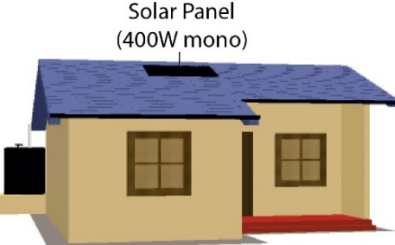
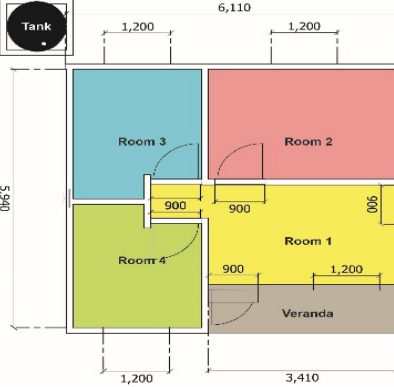
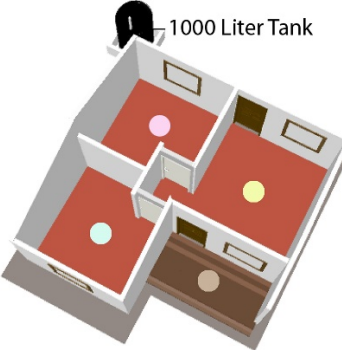
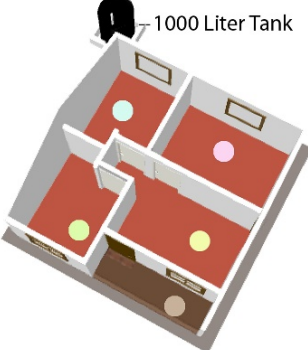
House Type B 33m ² (There are twenty-seven (27) structures eligible for a Type B replacement house in Kagera Region)																					
<p>Description: Type B is a 33 m² house which is well lit with natural light through four (4) windows which also allows for good cross ventilation, two (2) external doors and a small covered veranda. Type B1 has three (3) rooms and B2 has four (4) rooms as shown below.</p>																					
<p>Eligibility: Replaces all residential dwellings greater than 25.1 m² but less than or equal to 33 m².</p>																					
<p>Alternative: Like the smaller Type A dwelling, there are two (2) alternative floor plans that an eligible PAP can choose from including House Type B1 which has three (3) rooms and House Type B2 which has four (4) rooms.</p>																					
B1 - 33m ² (3 Rooms)		B2 - 33m ² (4 Rooms)																			
																					
	<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>13.00 m²</td> </tr> <tr> <td>Room 2</td> <td>10.16 m²</td> </tr> <tr> <td>Room 3</td> <td>10.16 m²</td> </tr> <tr> <td>Veranda</td> <td>3.15 m²</td> </tr> </table>	Room 1	13.00 m ²	Room 2	10.16 m ²	Room 3	10.16 m ²	Veranda	3.15 m ²		<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>9.18 m²</td> </tr> <tr> <td>Room 2</td> <td>7.9 m²</td> </tr> <tr> <td>Room 3</td> <td>7.9 m²</td> </tr> <tr> <td>Room 4</td> <td>8.3 m²</td> </tr> <tr> <td>Veranda</td> <td>3.6 m²</td> </tr> </table>	Room 1	9.18 m ²	Room 2	7.9 m ²	Room 3	7.9 m ²	Room 4	8.3 m ²	Veranda	3.6 m ²
Room 1	13.00 m ²																				
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Room 3	7.9 m ²																				
Room 4	8.3 m ²																				
Veranda	3.6 m ²																				

Figure 7-9: House Type B : B1 and B2 Layout

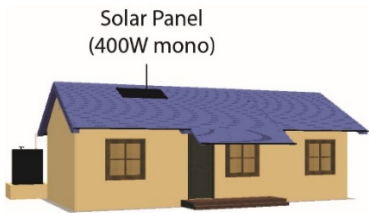
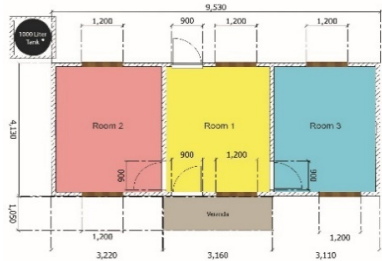

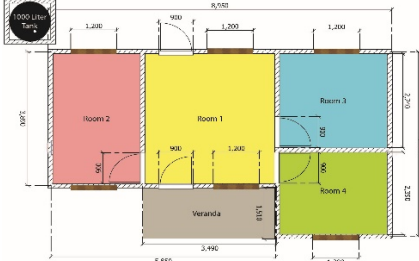
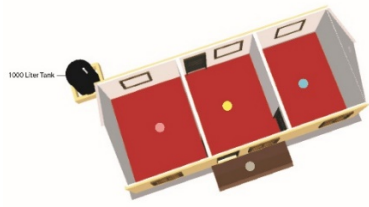

House Type C 39m ² (There are eleven (11) structures eligible for a Type C replacement house in Kagera Region)																					
<p>Description: House Type C is 39 m² and is well lit with natural light through six (6) windows which also allows for good cross ventilation and two (2) external doors. Type C1 has three (3) rooms and C2 has four (4) rooms as shown below.</p>																					
<p>Eligibility: Replaces all residential dwellings greater than 33.1 m² but less than or equal to 39 m².</p>																					
<p>Alternative: There is a choice between the three (3) room Type C1 and the four (4) room Type C2 configuration.</p>																					
C1 – 39m ² (3 Rooms)		C2 - 39m ² (4 Rooms)																			
 <p>Solar Panel (400W mono)</p>		 <p>Solar Panel (400W mono)</p>																			
 <p>1000 Liter Tank</p>	<p>Areas</p> <table border="1"> <tr> <td>Room 1</td> <td>12.96 m²</td> </tr> <tr> <td>Room 2</td> <td>13.00 m²</td> </tr> <tr> <td>Room 3</td> <td>13.00 m²</td> </tr> <tr> <td>Veranda</td> <td>3.00 m²</td> </tr> </table>	Room 1	12.96 m ²	Room 2	13.00 m ²	Room 3	13.00 m ²	Veranda	3.00 m ²	 <p>1000 Liter Tank</p>	<p>Areas</p> <table border="1"> <tr> <td>Room 1</td> <td>12.18 m²</td> </tr> <tr> <td>Room 2</td> <td>10.00 m²</td> </tr> <tr> <td>Room 3</td> <td>8.40 m²</td> </tr> <tr> <td>Room 4</td> <td>8.40 m²</td> </tr> <tr> <td>Veranda</td> <td>4.60 m²</td> </tr> </table>	Room 1	12.18 m ²	Room 2	10.00 m ²	Room 3	8.40 m ²	Room 4	8.40 m ²	Veranda	4.60 m ²
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Room 4	8.40 m ²																				
Veranda	4.60 m ²																				

Figure 7-10: House Type C : C1 and C2 Layout

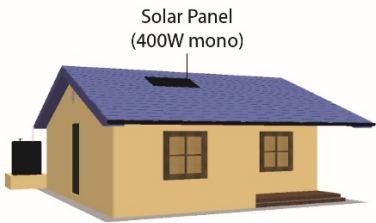

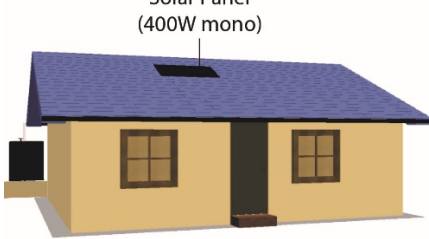
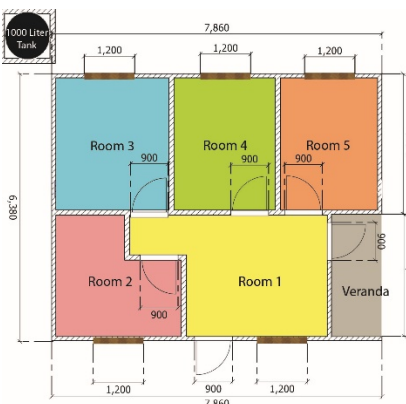
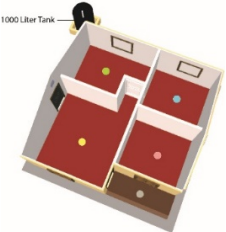
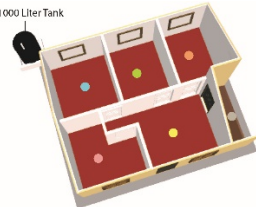
House Type D 47m ² (There are six (6) structures eligible for a Type D replacement house in Kagera Region)																									
<p>Description: House Type D is a 47 m². This house is well lit with natural light through four (4) windows in D1 and five (5) windows in D2 which also allows for good cross ventilation, and two (2) external doors. Type 'D1' has four (4) rooms and 'D2' has five (5) rooms as shown below.</p> <p>Eligibility: Replaces all residential dwellings greater than 39.1 m² but less than or equal to 47 m².</p> <p>Alternative: There is a choice between the four (4) room Type 'D1' and the five (5) room Type 'D2 configuration'.</p>																									
D1 – 47m ² (4 Rooms)		D2 - 47m ² (5 Rooms)																							
																									
	<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>16.86 m²</td> </tr> <tr> <td>Room 2</td> <td>10.28 m²</td> </tr> <tr> <td>Room 3</td> <td>10.28 m²</td> </tr> <tr> <td>Room 4</td> <td>10.296 m²</td> </tr> <tr> <td>Veranda</td> <td>4.00 m²</td> </tr> </table>	Room 1	16.86 m ²	Room 2	10.28 m ²	Room 3	10.28 m ²	Room 4	10.296 m ²	Veranda	4.00 m ²		<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>12.7 m²</td> </tr> <tr> <td>Room 2</td> <td>8.8 m²</td> </tr> <tr> <td>Room 3</td> <td>8.6 m²</td> </tr> <tr> <td>Room 4</td> <td>8.4 m²</td> </tr> <tr> <td>Room 5</td> <td>8.6 m²</td> </tr> <tr> <td>Veranda</td> <td>3.8 m²</td> </tr> </table>	Room 1	12.7 m ²	Room 2	8.8 m ²	Room 3	8.6 m ²	Room 4	8.4 m ²	Room 5	8.6 m ²	Veranda	3.8 m ²
Room 1	16.86 m ²																								
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Room 4	8.4 m ²																								
Room 5	8.6 m ²																								
Veranda	3.8 m ²																								

Figure 7-11: House Type D: D1 and D2 Layout

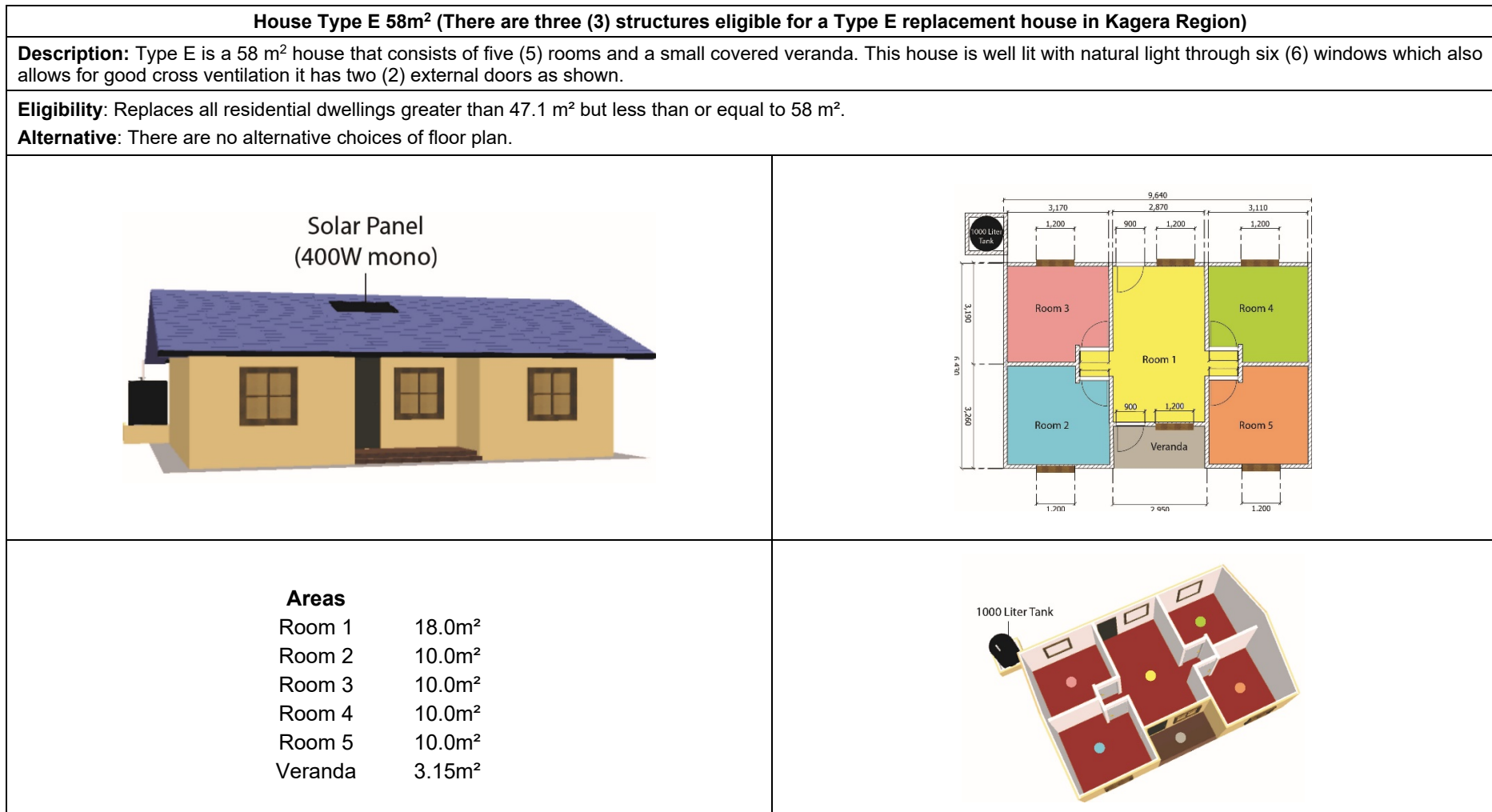


Figure 7-12: House Type E Layout

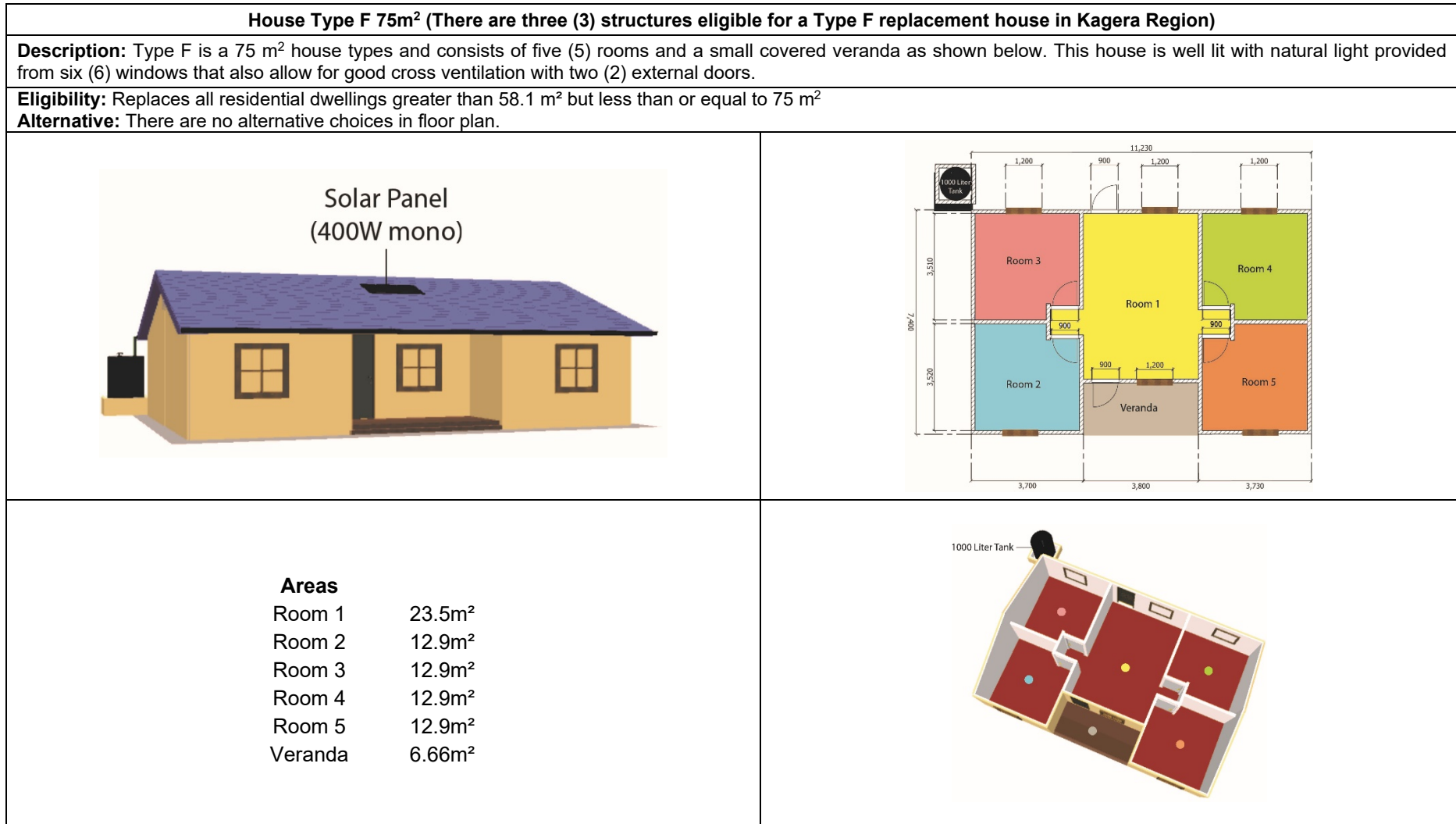


Figure 7-13: House Type F Layout

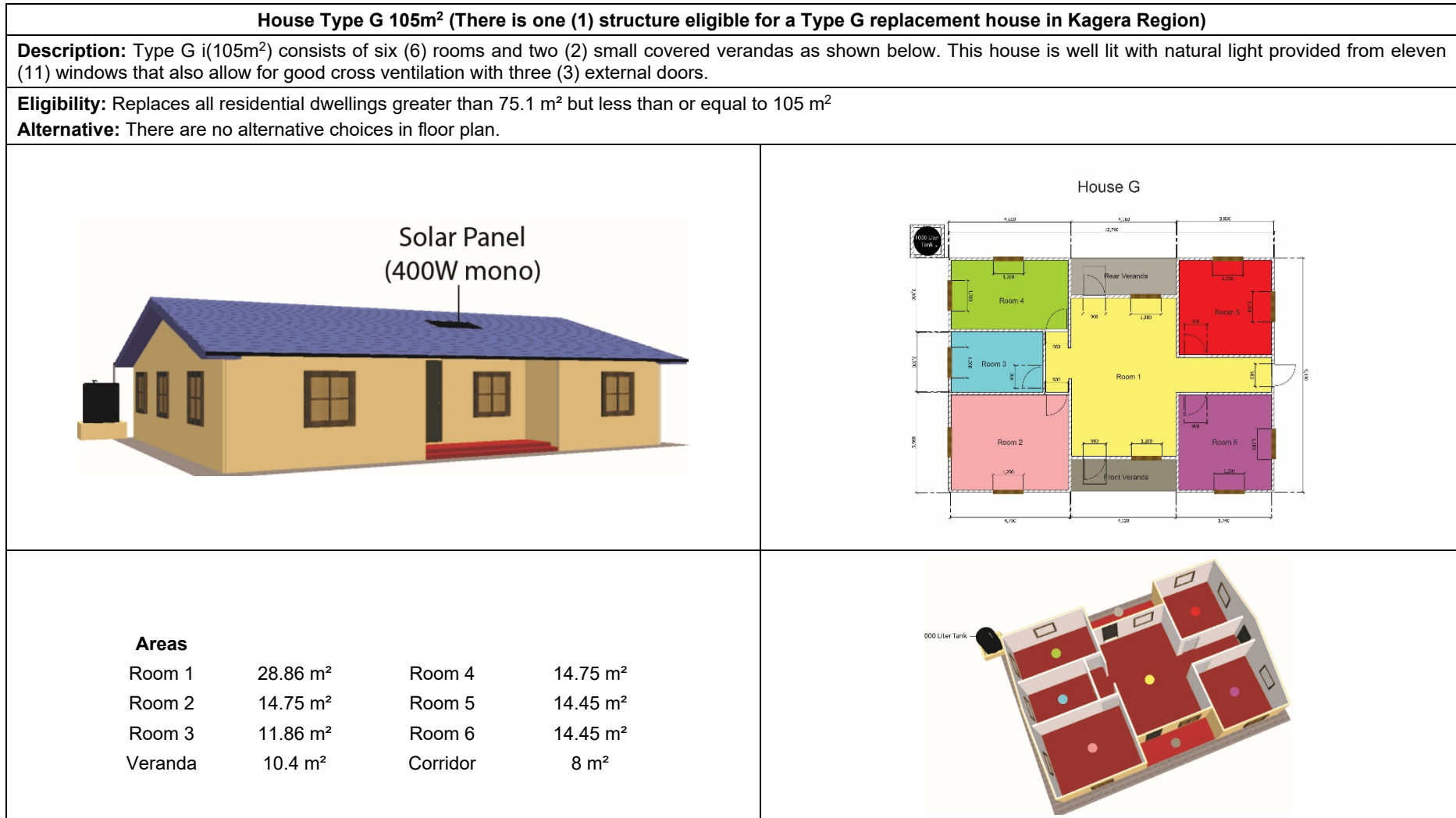


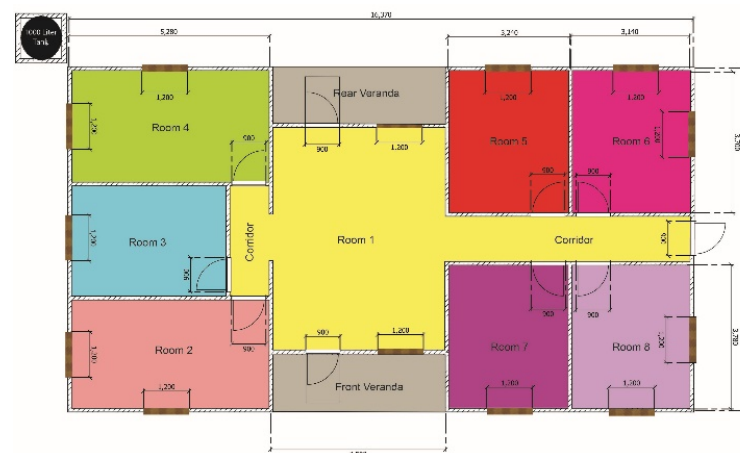
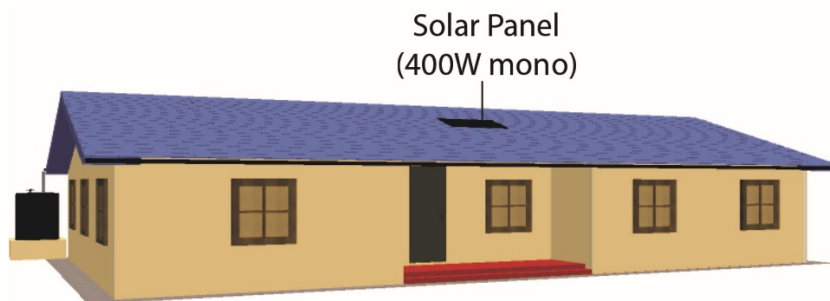
Figure 7-14: House Type G Layout

House Type H 145m² (There is one (1) structure eligible for a Type H replacement house in Kagera Region)

Description: Type H is the biggest (145 m²) of the house types and consists of eight (8) rooms and two (2) small covered verandas as shown below. This house is well lit with natural light provided from thirteen (13) windows that also allow for good cross ventilation with three external doors.

Eligibility – Replaces all residential dwellings greater than 105.1 m² but less than or equal to 145 m²

Alternative - There are no alternative choices in floor plan.



Areas			
Room 1	30.10 m ²	Room 5	13.90 m ²
Room 2	17.30 m ²	Room 6	13.90 m ²
Room 3	12.73 m ²	Room 7	13.90m ²
Room 4	17.30 m ²	Room 8	13.90m ²
Corridor	12.10	Veranda	13.5 m ²

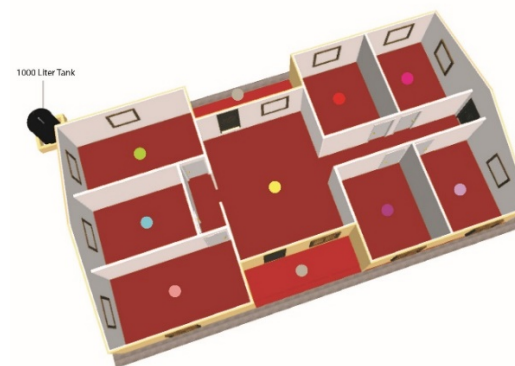


Figure 7-15: House Type H Layout

Ablution / Latrine Designs

The two VIP latrine / ablution typologies consist of:

- Single covered VIP latrine (Latrine Type A); and
- A single covered VIP latrine and shower combination that is covered and enclosed with two doors (Latrine Type B).

Both types will be built over a cylindrical excavated pit, built in with concrete blocks onto a cylindrical strip foundation. The first five courses of block work will have weep holes. The cylinder will be covered by a reinforced concrete slab to support built up walls in concrete blocks.

Type B latrines will have a connecting washing space with a single door. There will be a continuous in-situ cast concrete ring beam on all external walls and the one internal wall. This will be necessary for structural support to distribute the weight of the roof evenly on both internal and external walls.

Both VIP latrine types will have a mono-pitched roof structure, constructed in treated soft wood and covered with corrugated sheets. The floors will have non-slip ceramic matt tiles with a high wall skirting. Walls will be painted in a high gloss enamel finish, and battened type hardwood doors in hardwood frames will be varnished. A white glazed squatting type pan will be provided. A p-trap will be necessary to create a water trap for the prevention of odors in the spaces.

Kitchen Shelter Designs

The two kitchen typologies consist of:

- Open covered kitchen (Kitchen Type A) and
- Open covered kitchen with an enclosed store (Kitchen Type B).

The rationale behind a covered kitchen with openings, no doors and windows, is to provide for a well-ventilated cooking area, but also partly screened from the outside area to prevent any potential fire risks to vegetation surrounding the homestead. A small enclosed connecting kitchen store (built in cupboard without shelves) will provide a secure space for food and cooking utensils. An elevated slab for cooking (with a mild steel hood and chimney) will offer a safe cooking area out of reach of small children. PAPs can fill-in the openings with other building material or fenestration (the arrangement of windows in a building), and shelving in the cupboard can be finished according to the households means and needs.

Type B will have an additional connecting store. For the two kitchen types there will be concrete strip foundations to support a concrete solid block foundation wall, built up to the natural ground line, and a reinforced concrete ground beam to support a thick concrete floor slab. All external and internal walls will be built from concrete blocks (with 12mm cement plaster on both sides).

For Type A kitchen there will be treated soft wood timber beams to tie the masonry work back to two galvanized mild steel columns cast in the concrete foundation.

For Type B kitchen there will be a continuous in-situ cast concrete ring beam on all external walls and the one internal wall. This will be necessary for structural support to distribute the weight of the roof evenly on both internal and external walls.

Both kitchen types will have a mono-pitched roof structure, constructed in treated soft wood and will be covered with corrugated iron sheets. The floors will have oxide colored cement screeds on the concrete floor slabs. There will not be any ceilings provided. Walls will be painted in eggshell colored finish. The composite panel external doors that have hardwood frames will be varnished after installation.

The key features of the four (4) ancillary structures are shown below and described in full (including floor plans, elevations and 3-dimensional views) in Appendix D.

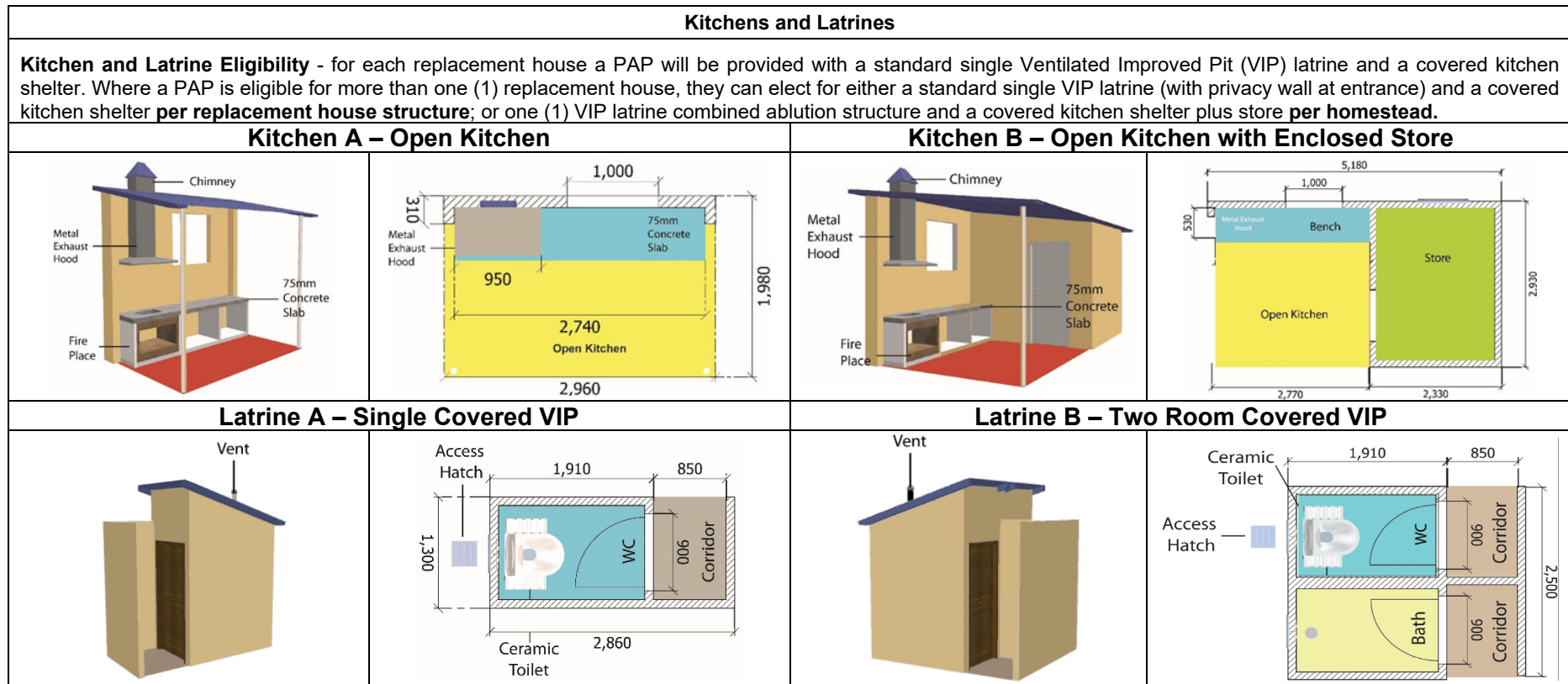


Figure 7-16: Ancillary Structures: Kitchens and Latrines

7.2 Replacement Land

PAPs that are eligible for replacement land will be given a choice between replacement land and cash compensation (or a combination of both). The same principle will apply in the case of physical displacement. Eligible PAPs will be given the opportunity to choose between cash compensation and replacement land during entitlement briefings, which will constitute one of the first steps in RAP implementation.

The replacement land requirements outlined in this document are based on the conservative assumption that all PAPs who are eligible for replacement land and / or housing will choose the in-kind option rather than the cash option.

7.2.1 Land Requirements

Arable land accounts for only 15.4% of Tanzania's land mass¹⁸³ (FAO, 2012). The balance is predominantly forested (53.3%). On average, 83% of Tanzania's arable land available to households is currently being utilized. A review of land availability and productivity in the eight pipeline affected districts found that on average sixty-seven percent of the affected districts have households which utilize more than 80% of their land, leaving less than 20% "disposable" land. In Kagera, household land utilization varies from 71% of household land in Biharamulo to 91% in Bukoba. This leaves between 9% and 29% "disposable" land respectively (shown in Table 7-5).

Table 7-5 Arable Land not Currently Utilized in Kagera¹⁸⁴

District	Average Planted Area per Household (Acre)	Usable Area per Household (Acre)	Percentage (%) of Land Area Currently Utilized by Households
Missenyi	0.92	1.03	89.47
Bukoba	0.47	0.52	90.86
Muleba	0.57	0.64	89.13
Biharamulo	1.16	1.62	71.21

The land pieces to be acquired from PAPs range in size from less than 0.5 acres to more than 10 acres of land. In Kagera most of the parcels required are less than 0.5 acres, while five (5) PAPs will have more than 10 acres of their land acquired by the Project. Most PAPs have one piece of land acquired and approximately 14% of PAPs in Kagera will have more than one (1) parcel acquired by the Project. Chapter 6 presents the eligibility criteria for replacement land.

Figures 7-17 and 7-18 show the maximum amount of replacement land required and length of each section by ward within the Kagera Region.

¹⁸³ <http://tanzania.opendataforafrica.org/nmwhocb/tanzania-fao-stat-land-use-and-agricultural-inputs>.

¹⁸⁴ DWC. Technical Note: Eligibility Criteria for the EACOP Pipeline (2019).

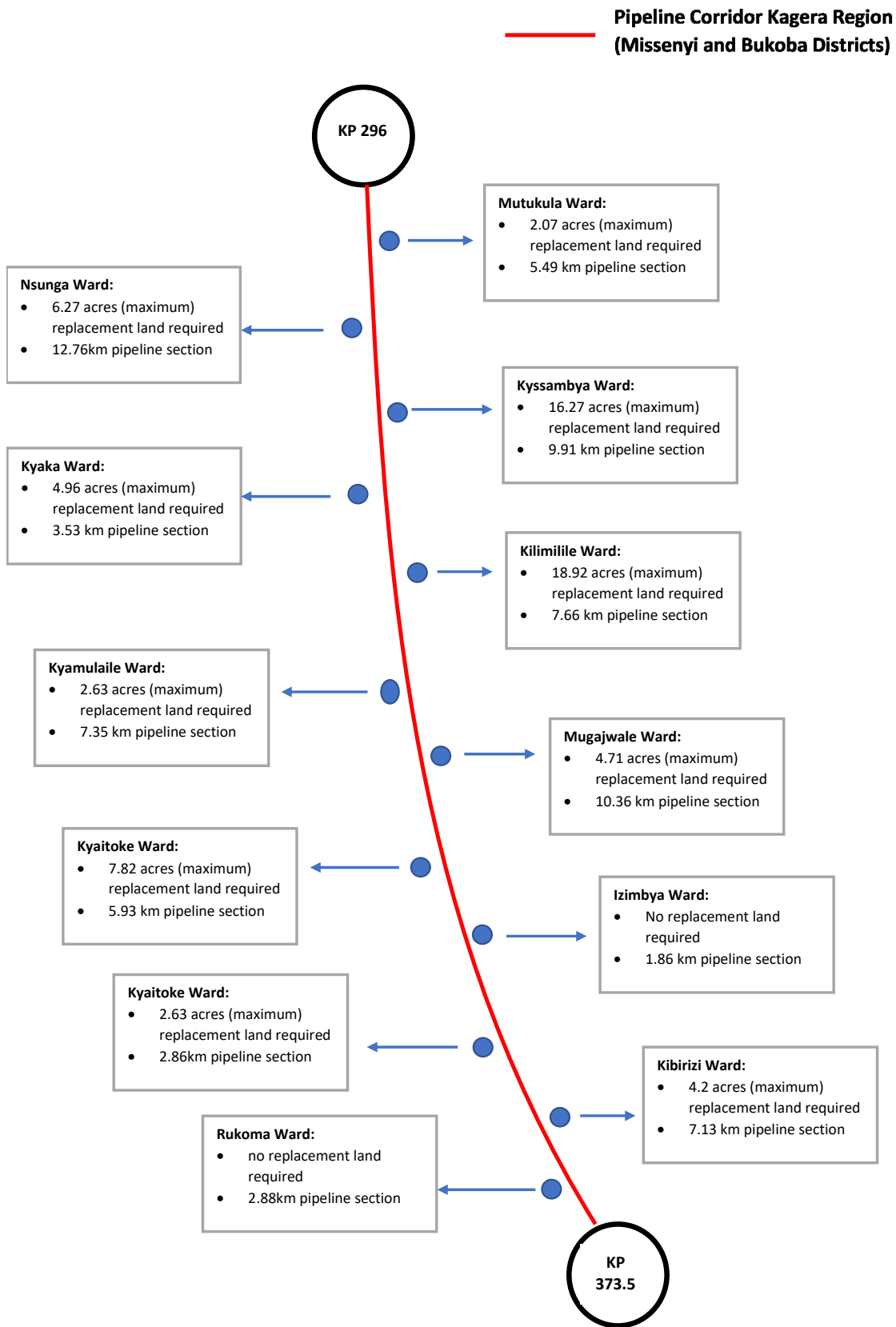


Figure 7-17: Maximum Area of Replacement Land Requirements in Missenyi and Bukoba Districts

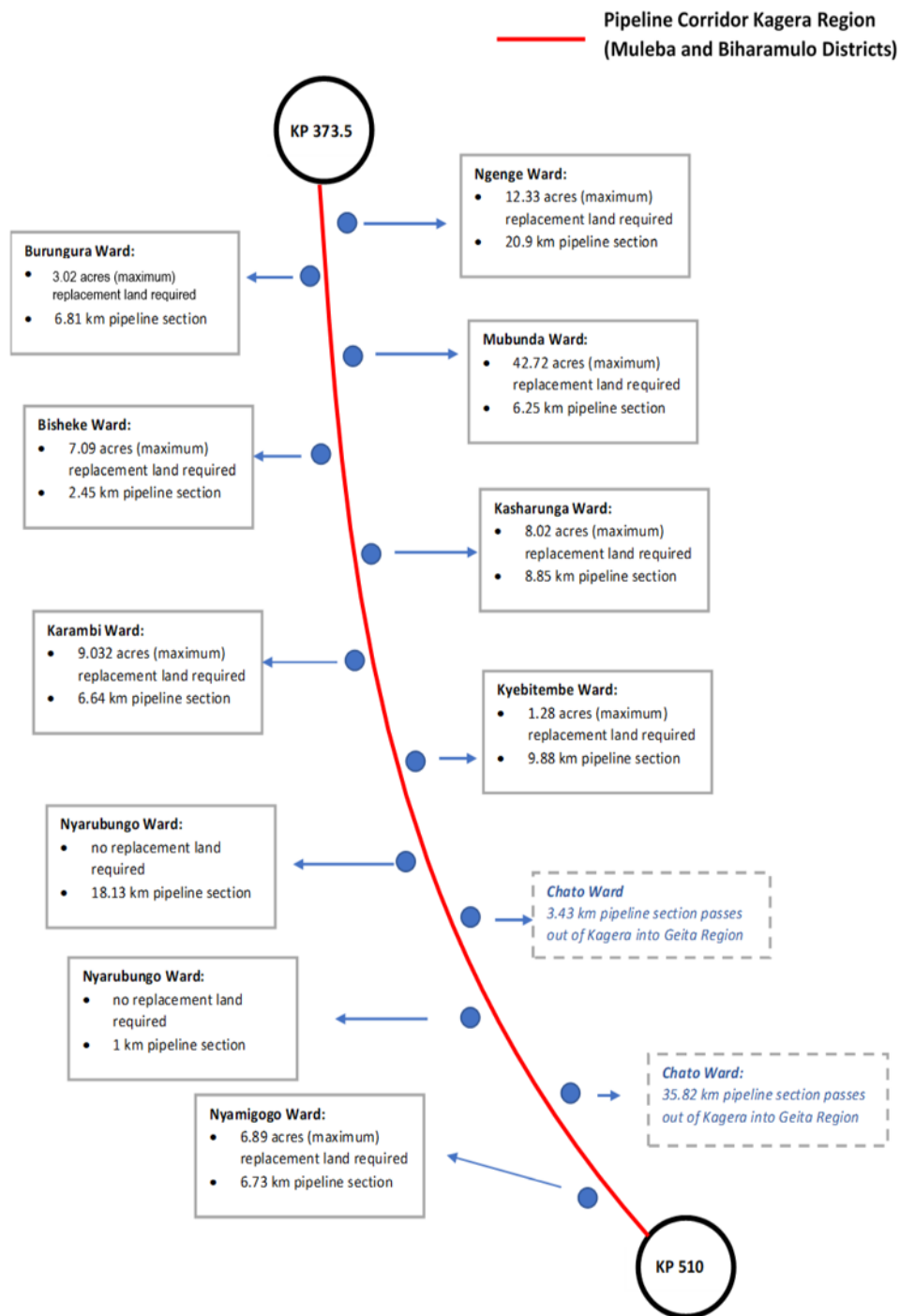


Figure 7-18: Maximum Area of Replacement Land Requirements in Muleba and Biharamulo Districts

In terms of replacement land, the total number of PAPs and number of affected parcels are provided in Table 7-6. The table also shows the extent of replacement agricultural land that may be required, assuming all PAPs eligible for replacement land select it.

Table 7-6 Summary of Replacement Land Requirements in Kagera Region

District	Ward	Village / Mtaa	Number of PAPs	Number of Land Parcels	Replacement Land Requirements (acres)
Missenyi	Mutukula	Mutukula	2	3	2.07
	Nsunga	Byamutemba	4	4	4.67
		Igayaza	3	5	1.6
	Kassambya	Mabuye	10	12	7.46
		Kassambya	2	3	1.20
		Nyabihanga	10	15	7.62
	Kyaka	Bulifani	3	7	4.96
Kilimilile	Kilimilile	14	17	18.92	
Bukoba	Kyamulaile	Kyamulaile	3	3	2.63
	Mugajwale	Kobunshwi	3	4	0.77
		Mugajwale	7	7	3.94
	Kyaitoke	Kyaitoke	12	20	7.82
	Izimbya	Izimbya			
	Kyaitoke	Rugaze	1	1	2.63
	Kibirizi	Kamuli	3	3	4.20
Rukoma	Nsheshe				
Muleba	Ngenge	Rwigembe	1	1	0.59
		Nyakanyasi	8	9	4.34
		Ngenge	5	6	3.41
		Kishuro	7	8	2.62
		Rukindo	3	3	1.36
	Burungura	Kakoma	8	8	3.02
	Mubunda	Kikagate	8	11	42.72
	Bisheke	Milanda	4	4	7.09
	Kasharunga	Kiteme	8	15	8.02
	Karambi	Kiguzi	5	8	1.34
		Karambi	1	1	0.10
Kanyamika		6	6	7.59	
Kyebitembe	Kasindaga	1	2	1.28	
Biharamulo	Nyamigogo	Nyamigogo			
		Kasozibakaya	4	5	6.89
KAGERA REGION			146	191	160.85

7.2.2 Availability of Replacement Land

As prescribed by IFC PS5, where a PAP whose livelihoods are land based, it is preferred that replacement land that is at least equivalent to that being lost in terms of productive potential and locational advantage be offered. However, it is also acknowledged that in many

cases unused agricultural land is increasingly rare and alternative strategies may be required. In such cases, the IFC Draft Good Practice Handbook¹⁸⁵ suggests that:

“Land-for-land replacement can be achieved:

- *by individual households securing their own replacement land, with the project and local authorities in a facilitating role rather than intervening directly; or*
- *by the project securing replacement agricultural land sites or individual plots, which are then allocated to displaced households”.*

As discussed in Section 7.2.1 of this report, the amount of unutilized arable land in Kagera ranges from 6% to 28% across the four (4) districts. Consideration is therefore required in determining the most appropriate mechanism(s) to ensure that land-for-land replacement can be achieved in Kagera. This may include one or both of the options recommended in the Draft Good Practice Handbook.

As mentioned in Section 7.1.5, a PAP may have other land available within the same area and request their replacement house be constructed there in preference to replacement land secured by the Project. In such cases, appropriate due diligence will be undertaken to ensure the site is suitable from a technical, legal and practical point of view.

7.3 Replacement Housing and Land Implementation

A more precise determination of land required for replacement housing and agricultural land will be made once PAPs have chosen their options and signed their compensation agreements.

The Project intends to construct replacement houses in a time frame that will allow physically displaced PAPs affected by the pipeline corridor to move directly into replacement housing and will not need to be moved into temporary accommodation. However, there may be instances where temporary accommodation is required, such as where a PAP elects to have a replacement house constructed on their existing homestead and for safety reasons it is not considered appropriate for these households to remain living on the homestead during this construction. In such instances the Project will work closely with PAPs and relevant authorities to support the PAPs during this transition period.

In terms of replacement land required to accommodate replacement houses, the aim is for most to be in the same village or ward as the land previously owned by PAPs (or as close as possible). Thus, the replacement plots where possible will be Village Land under jurisdiction of the same village, although right of occupancy will have to be transferred to the PAP. To ensure security of tenure for resettled PAPs, formal land acquisition, transfer and registration as per Tanzanian legislation will be conducted for identified replacement land. In coordination with the GoT, Project will support the process to secure documents for the PAP to secure the best available security of tenure.

¹⁸⁵ IFC. Draft Good Practice Handbook: Land Acquisition and Resettlement (2019).

Any replacement agricultural land will be prepared and made available as soon as possible. This process will be monitored in order to ensure that the PAPs are resettled as soon as possible into their replacement houses, and that livelihoods are restored. Where replacement land is not available (or not prepared) at the time of displacement to eligible PAPs who select this option, transitional support will be put in place. Additional details on the transitional support to be offered to eligible PAPs to restore livelihoods are outlined in the LRP in Chapter 8.

8 LIVELIHOOD RESTORATION PLAN

8.1 Introduction

One of the major challenges associated with resettlement, particularly in rural contexts where people are reliant on land and the use of natural resources, is the restoration of existing livelihood strategies.¹⁸⁶ This chapter focuses on the restoration, and potential enhancement, of livelihoods of the PAHs, as well as the existing inhabitants of the host communities, whose livelihoods will also potentially be disrupted.

In cases where compensation alone, whether in cash or in-kind, will not guarantee the restoration or improvement of displaced families' existing livelihoods, a Livelihood Restoration Plan (LRP) will be introduced to those households who are eligible for such support. Generally, this is when physical resettlement or economic displacement significantly affects the income-earning or production capacity of the affected families.

The overall aim of the LRP is to ensure that there is a measurable improvement in the lives and livelihoods of eligible PAHs. This section summarizes the Project's approach to livelihood restoration activities¹⁸⁷ that will meet the following objectives:

- Provide sustainable livelihood packages for PAHs that are designed to enable the PAPs and PAHs to move beyond dependence on external resources;
- Provide mechanisms for those receiving cash compensation to optimize opportunities;
- Where possible leverage off existing skills and interests, and also provide an environment for the development and enhancement of new skills; and
- Enable self-reliance and foster socio-economic empowerment "...to improve, or at least restore, the livelihoods and standards of living of displaced persons"¹⁸⁸.

This section includes an overview of the following:

- Key principles underpinning the LRP;
- Phasing of the LRP implementation;
- Overview of livelihood context and strategies;

¹⁸⁶ Livelihoods, in the sense that the term is used here, refers to strategies that households and individuals employ to meet their economic and survival needs. Such strategies may involve cash income, but this is not necessarily the case – a household may also meet its needs by growing its own food, bartering produce for necessities, etc. A household or individual may also engage in more than one (1) form of livelihood, some being cash-based and others being subsistence-oriented. Subsistence-orientated livelihoods are the main component of the PAPs livelihood strategies.

¹⁸⁷ Eligibility to these programs for PAPs is dependent on the significance of impact on PAP livelihood strategies and access to certain programs whether they select replacement land or cash compensation.

¹⁸⁸ International Finance Corporation (IFC) (2012) Performance Standard 5.

- Assessment of livelihood impacts;
- Eligibility for livelihood restoration support;
- Current livelihood improvement programs;
- Livelihood Restoration Plan; and
- Transitional Support Plan.

The LRP comprises a package of livelihood restoration options that will be offered to PAPs and PAHs. The level of support provided will be aligned with the level of impact experienced by a household as well as their potential vulnerability.

Households identified during the socio-economic survey process as potentially vulnerable will be further engaged to determine if these factors require a more customized level and type of support to enable them to restore their livelihoods. The support to be provided to potentially vulnerable persons and groups is described in Chapter 9.

8.2 Key Principles Underpinning the LRP

Development of the livelihood restoration approach for the Project is guided by the following principles, which correspond with applicable national laws and IFI standards.

Table 8-1: Key Principles Underpinning the LRP

Key Principle	Description
Multi-faceted approach	Livelihood strategies need to incorporate a range of different approaches to restore, and / or improve livelihood activities.
Active community participation	Livelihood strategies can only be sustained if beneficiaries are able to actively participate and make informed choices about their preferred livelihood options. Community participation needs to be planned and implemented in such a way as to enable equal participation by women and potentially marginalized groups.
Vulnerability	Particular focus and consideration need to be given to vulnerable individuals / groups throughout the livelihood restoration process, including people who are part of minority ethnic groups, or on the margins of society.
Transitional support	Pending implementation of the LRP, transitional support is required to support the income earning capacity of eligible households until their livelihood activities have been restored. Eligibility and end points for transitional support will be clearly defined.
Multi-sectoral partnerships	Technical expertise and institutional support are to be utilized across multiple service providers to ensure successful delivery.
Sustainability	Sustainability principles must be applied throughout LRP planning and implementation to ensure the strategy is resilient without compromising the natural environment.
Community ownership	Dependency is a key risk associated with resettlement activities that needs to be avoided. A livelihoods restoration strategy needs to empower communities to take ownership.
Capacity building	Local capacity building is a core element of a livelihood's restoration strategy. Capacity building needs to be inclusive and make provisions for the development of skills for different groups.
Monitoring and evaluation	Ongoing monitoring and evaluation are key elements of an improved livelihoods strategy. Indicators need to be used to measure change as applicable.

8.3 Phasing of the LRP

Given the scale and potential complexity associated with the implementation of the LRP, it will be completed across two phases, namely Phase 1: Immediate Livelihood Restoration and Support and Phase 2: Additional Livelihood Enhancement. The purpose of implementing

the LRP across two phases is to allow for a more refined approach, efficient resourcing and also to ensure there are limited delays in restoring livelihoods impacted by the Project.

Phase 1 will focus on the immediate restoration of directly impacted livelihoods and the enhancement of food security for PAHs. While the exact Livelihood Restoration Activities (LRA) offered in each Phase will differ depending on the nature of the impact, for the Kagera region it will focus on the preparation of replacement land, agricultural enhancement and money management training.

Phase 2 will offer additional programs that will look to further enhance and potentially diversify livelihoods. It is important to note that it will be possible to implement Phase 1 and some Phase 2 programs in parallel, however; the initial focus of time and resources will be devoted to the implementation of Phase 1 programs.

Section 8.8.2 provides detail on each of the proposed programs.

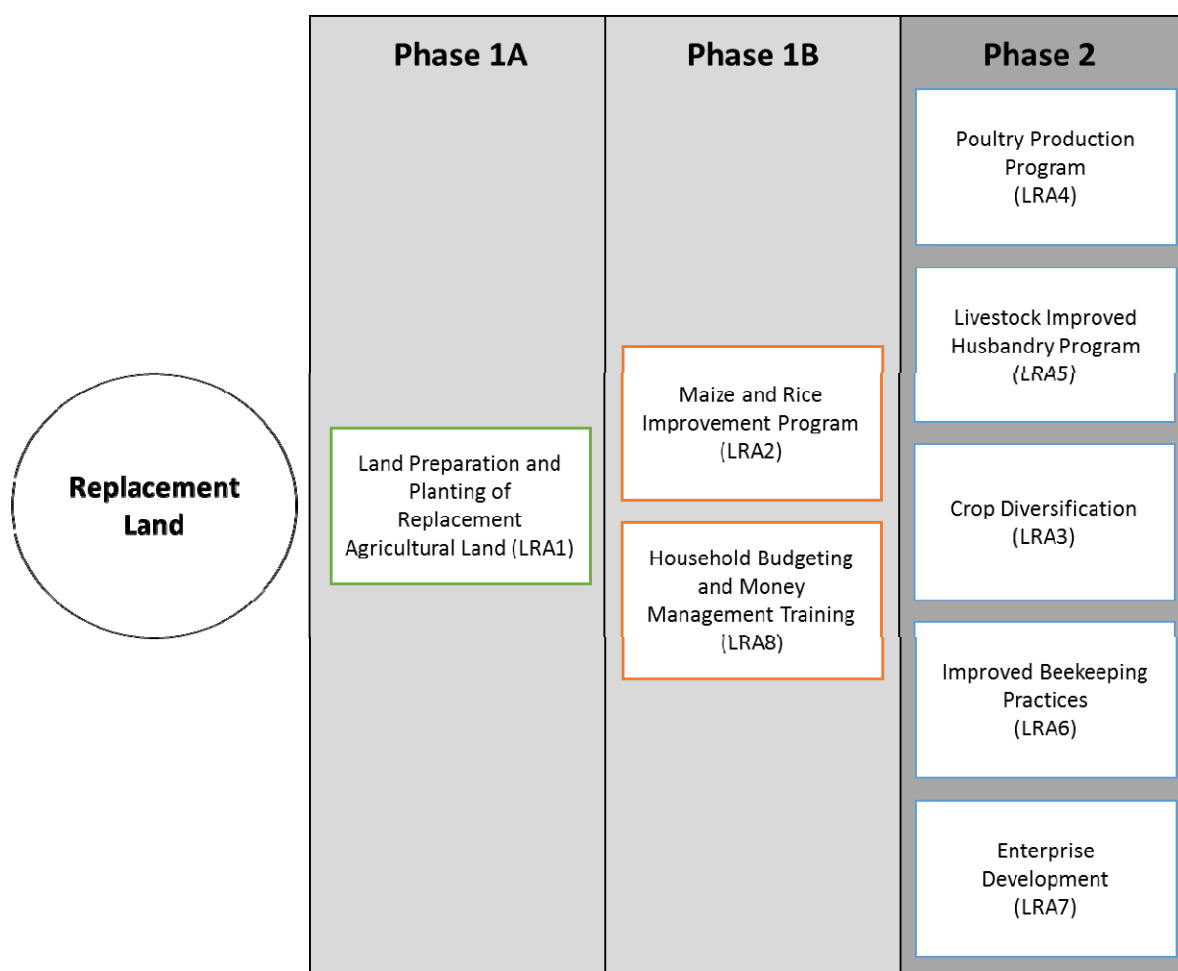


Figure 8-1: Phases of the LRP implementation

8.4 Overview of Livelihood Context and Strategies

The restoration and enhancement of livelihoods needs to consider several interconnected assets and elements on a regional and local level, such as access to land (productive, fallow, and pasture), access to social networks, access to natural resources such as timber

and non-timber forest products, medicinal plants, hunting and gathering grounds, grazing and cropping areas, fresh water, as well as employment and capital (human and financial).

These characteristics vary widely, and therefore the LRP must be developed in a contextual and practical manner. It is however also important that LRP benefits and eligibility criteria are common across all regions to ensure fairness. In developing the Kagera Region LRP the following factors were considered:

- The Kagera Region livelihood context;
- Climate;
- Cultural characteristics;
- Livelihood Zone;
- Livelihood strategies including:
 - Role of and access to markets;
 - Paid labor;
 - Size of agricultural land; and
 - Climate variability, crop yields and adaptation.
- Ward specific livelihood considerations; and
- PAP Livelihood Restoration Support Suggestions.

8.4.1 The Kagera Livelihood Context

The Kagera Region is named after the Kagera river, which flows from Rwanda through to Lake Victoria. The region is located in the Lake Victoria Basin, which covers 60,500 km² across Tanzania, Rwanda, Burundi and Uganda. The Lake Victoria Basin Water Board (LVBWB) is responsible for managing water resources in the Tanzanian portion of the catchment and falls under the Ministry of Water and Irrigation. Natural resources in the basin are under pressure due to population growth, intensification of agriculture and livestock rearing opportunities.

Agricultural shocks in the region have included heavy rains in 1997 / 1998 and the collapse of coffee prices between 2000 and 2003. The region was hit by an earthquake in 2016, which had a significant impact on the livelihoods of farmers. Periodic maize export bans (the last was in 2018) have resulted in an excess of maize in the domestic market and an associated decline in the price thereof.

Some villages in the region, for example Milanda Village, were established as part of Ujamaa¹⁸⁹, a social and economic policy developed and implemented between 1964 and 1985. The policy promoted collective farming by groups of approximately 250 families,

¹⁸⁹ Familyhood in Swahili. Name given to socialist programs following the writing of President Julius Nyerere.

moving them from urban areas to rural areas. This was also referred to as “villagization”. By the end of the 1970’s, 2,500 Ujamaa villages had been established. An aim of the policy was to increase productivity, and equipment, fertilizer and seed were distributed to these settlements. This approach also sought to break down tribalism and to create greater unity. The dismantling of Ujamaa started in 1986. This process included encouraging the participation of the private sector in the economy, depreciation of the currency, removal of price controls and easing restrictions on the marketing of food crops. Currently, the government still sets the prices for some crops such as sunflowers, coffee, cashew nuts and cotton.

In 2012 the Kagera Region had a population of 2.5 million people, with a population density of 84.9 people per km². The region covers 40,838 km², with 11,885 km² comprising water bodies. The population in the region includes several ethnic groups. The main group is the Haya, with a smaller population of Sukuma people (Refer to Section 5.2.1 for population and household characteristics of the region). The Sukuma represent around 17% of Tanzania’s population and are the largest ethnic group in the country.

Four of the eight (8) districts in Kagera Region are affected by the Project, namely Missenyi, Bukoba, Muleba and Biharamulo Districts (Figure 5-3). The main livelihood practice in these districts is crop cultivation. Crops are grown for household consumption and for cash. Maize, cassava and beans are the main food crops across ethnic groups, whilst banana is an important crop for the Haya ethnic group and rice for the Sukuma ethnic group. A broad range of other crops are produced in smaller quantities (Refer to Section 5.3 for more detail).

Coffee is a key cash crop grown in all Project-affected districts. Sugar cane is an important cash crop in Missenyi District, with small growers providing sugar cane to Kagera Sugar. A population increase in this district is partly attributed to the presence of Kagera Sugar Company, the Olam Coffee Processing enterprise and the presence of ranches. Other cash crops are sorghum, tea, cotton, tobacco and vanilla.

Livestock keeping is the second most important economic activity in Missenyi, Bukoba, Muleba and Biharamulo Districts, with indigenous cattle, chicken and goats preferred to other livestock types. Livestock products supplement food and cash generated from crops. Fishing is a livelihood activity for those living close to water bodies. The Haya, Waha, Subi and Sukuma people are engaged in fishing in Lake Burigi and in the Kagera river.

In general, harvests are stored to supply a family for a year, weather and crop yields allowing. If the weather conditions are too dry, families may run out of food and have to buy food. The Haya people usually store food in a room in the house. Sukuma families typically store food in a sizeable outside storage enclosure made from grass.

Excess crops are sold when available, and the income is used for domestic products such as soap, salt and cooking oil, to pay for education, health and clothing needs and to supplement diets with meat and fish. If the harvest allows, some food crops are also sold as cash crops.

Whilst the Haya are primarily agriculturalists, the Sukuma people are typically agropastoralists. Agropastoralist expansion is characterized by mono-crop cultivation (mostly

maize and rice) in addition to the grazing of cattle. Oxen are used to plough and prepare land. Sukuma families have recently started cotton cultivation in the region.

The Haya and related groups cultivate bananas, practice intercropping and keep cattle in enclosed areas. Banana is usually intercropped with coffee, maize and beans. Cassava is usually grown separately. From the 1960s onwards, finger-millet cultivation declined, and cassava cultivation increased due to soil degradation. In the last eight (8) to fifteen (15) years the Haya have adopted maize in the form of ugali as their main food due to decreasing banana production caused by drought and banana diseases. Rice farming is practiced in Haya areas, following Sukuma practice. Rice supplements the household food intake and is a source of cash income.

Prior to independence in 1962, the Haya people owned more cattle than currently. The decline in livestock numbers has impacted crop yields, due to the application of less cattle manure to the soil. Manure is now mostly purchased¹⁹⁰. Grass is used extensively by the Haya for roofing and floor material, mats, to cover and protect food and to cover the soil around banana trees.

8.4.2 Climate

The climate of the region is an important consideration as this can determine the suitability and timing of various agriculturally based restoration approaches. Tanzania has a tropical climate with the coolest months from June to October and the hottest months from December to March.

Kagera Region, including the four (4) districts affected by the pipeline, is characterized by a bi-modal rainfall regime with two rainy seasons: the long Masika rains from March to May, and the short Vuli rain in October and November. Annual rainfall varies between 1,500 mm in the north and 1,000 mm in the south¹⁹¹. The dry season is from June to October. The region is divided into three (3) rainfall zones (Refer to Section 5.3.2 for more information about climatic conditions).

8.4.3 Cultural Characteristics

The three (3) main ethnic groups in the Missenyi District are the Haya and the Sukuma. The Haya are the main ethnic group in Bukoba District. The five (5) main ethnic groups in the Muleba District are the Haya, Sukuma, Subi, Zinza, Kerewe and Nyaruanda. The Subi, Sukuma, Haya and Sumbwa are found in the Biharamulo District.

Among the PAHs, only one household self-identifies as belonging to the Barabaig group. The Barabaig are one of the four internationally recognized and self-identifying indigenous groups in Tanzania and are viewed as in this RAP as a Vulnerable Ethnic Group (see Chapter 5 for more detail). This household compares favorably with other PAHs in the region

¹⁹⁰ SELI FGDs, 2018 / 2019.

¹⁹¹ Maruo S (2002): Differentiation of Subsistence Farming Patterns among the Haya Banana Growers in North Western Tanzania. African Study Monographs, 23 (4).

in terms of most socio-economic indicators: All adults are literate (compared to 76% for other PAHs); the household has experienced cash shortages in the past year (as have 95% of other PAHs), but not food shortage (reported by 89% of other PAHs). The household's primary source of livelihood is crop sales (see Chapter 5).

In general the different ethnic and tribal groupings live in harmony. Groups are often mixed in villages, with majority representation varying from place to place. For example, Songambela and Kanyamika Villages in Karambi Ward are mainly populated by Sukuma people, whilst Kiguzi¹⁹² and Karambi Villages have Haya majorities. Cross-border migration is evident in Kanyamika Village which houses at least ten (10) households from Rwanda and Burundi.

The broad Haya ethnic group includes tribes such as the Ziba, Hioza and Tumba. Livelihood activities are determined in part by climate and household necessity, and also by income earning opportunities. In addition, cultural and ethnic norms and traditions play an important role in some contexts. For example, the Haya have a long history of banana cultivation which forms part of the Haya identity. The banana cultivar they choose to focus on, may be guided by the market demand. The choice of crops for intercropping is maintained despite evidence that alternatives may be more viable.

The Haya are believed to have migrated from upland areas looking for soils to support coffee and banana crops. Haya households moved into the project affected wards from 1960 onwards, occupying most of the land suitable for banana farming and intercropping.

Sukuma households are primarily agro-pastoralists who undertake both farming and livestock keeping. This dual livelihood practice is part of their identity. The Sukuma people do not traditionally cultivate bananas, but purchase these from the Haya. Beginning around 2005, Sukuma families moved into Biharamulo and Muleba Districts from the neighboring Shinyanga, Mara, Mwanza, Kahama and Geita Regions. They tend to prefer lowland areas, which are good for rice (paddy) farming.

Sukuma farmers traditionally share cattle for ploughing the land and assist neighbors with other agricultural activities such as tilling, planting, weeding and harvesting. Typically, they gather on one farm, work the land together and eat together. This practice, known as Lubili, ensures that farmers are ready before the start of the rainy season and they harvest on time.

8.4.4 Livelihood Zone

The pipeline traverses eight (8) distinct Tanzanian Livelihood Zones (TLZ) as seen in Figure 8-2 below. A livelihood zone is defined as an area within which people share broadly the same pattern of livelihood activities, including having similar options for obtaining food,

¹⁹² It was reported to SELI 2018 / 2019 that the Nkole people from Uganda were the first inhabitants of Kiguzi Village in 1961, subsequently being registered in 1976.

income and market opportunities. The livelihoods zoning initiative began in Tanzania in 2008 and continues to be developed throughout the country¹⁹³.

The northernmost part of the pipeline corridor in Kagera Region traverses Zone TLZ 30. Livelihoods in TLZ 30 are characterized by beans, maize and livestock. Thereafter the pipeline crosses Zone TLZ 28 (banana, coffee and beans livelihoods) and Zone TLZ 29 (cotton, livestock, cassava and maize livelihoods). These zones are described in more detail below¹⁹⁴.

The Lowland zone (TLZ 30) receives sufficient rainfall to provide farmers with food to meet annual needs. Coffee and surplus food crops are sold locally and may be exported out of the zone. Poorer households earn additional cash by supplying agricultural labor to wealthier households or in towns inside and outside the zone. Households that own sufficient livestock may supplement income by selling a few head during the year. Good road networks facilitate the transport of commodities in and out of the zone, especially to and from Uganda. Insufficient rain is the main hazard affecting the zone, impacting household livelihoods (on average) in one out of five years.

Zone TLZ 28 is also an area where most of the crops produced can sustain households for the majority of the year, serving also as the main source of annual income. Livestock sales supplement cash earned from selling coffee, bananas and beans. Poorer households may also sell their labor to wealthier households in exchange for cash, but the contribution of wages to their annual income is less important than that of crop and livestock sales. Most labor opportunities are found in the rural areas and only a minority of laborers migrate to towns in search of casual labor. Market access in this zone is good as road networks link the zone to larger trading centers. Zone TLZ 29 is drier than TLZ 28 and TLZ 30. Food crops are grown by all households, but the harvests of poorer households may last only a few months. For the rest of the year they must seek income to cover their food needs. Cotton sales and cotton field labor are important sources of income for residents of the zone, and rice and other cash crops are sold at local markets and at trading centers within and beyond the zone. Wealthier households may supplement incomes through livestock. Poorer households may engage in casual labor in local towns.

A summary of affected livelihood activities in the Kagera region is provided in Table 8-2. The primary livelihood and income generation activities of PAHs are agriculture based (89% of all PAHs). This includes sale of crops (77% of PAHs). See Chapter 5, Section 5.5.3 for a more detailed discussion.

¹⁹³ Excerpts from: Preliminary Rural Livelihood Zoning: Tanzania (2010). USAID: A Special Report by the Famine Early Warning System Network. URL: <https://fews.net/sites/default/files/documents/reports>.

¹⁹⁴ Zone descriptions are excerpts from: Preliminary Rural Livelihood Zoning: Tanzania (2010). USAID: A Special Report by the Famine Early Warning System Network. URL: <https://fews.net/sites/default/files/documents/reports>.

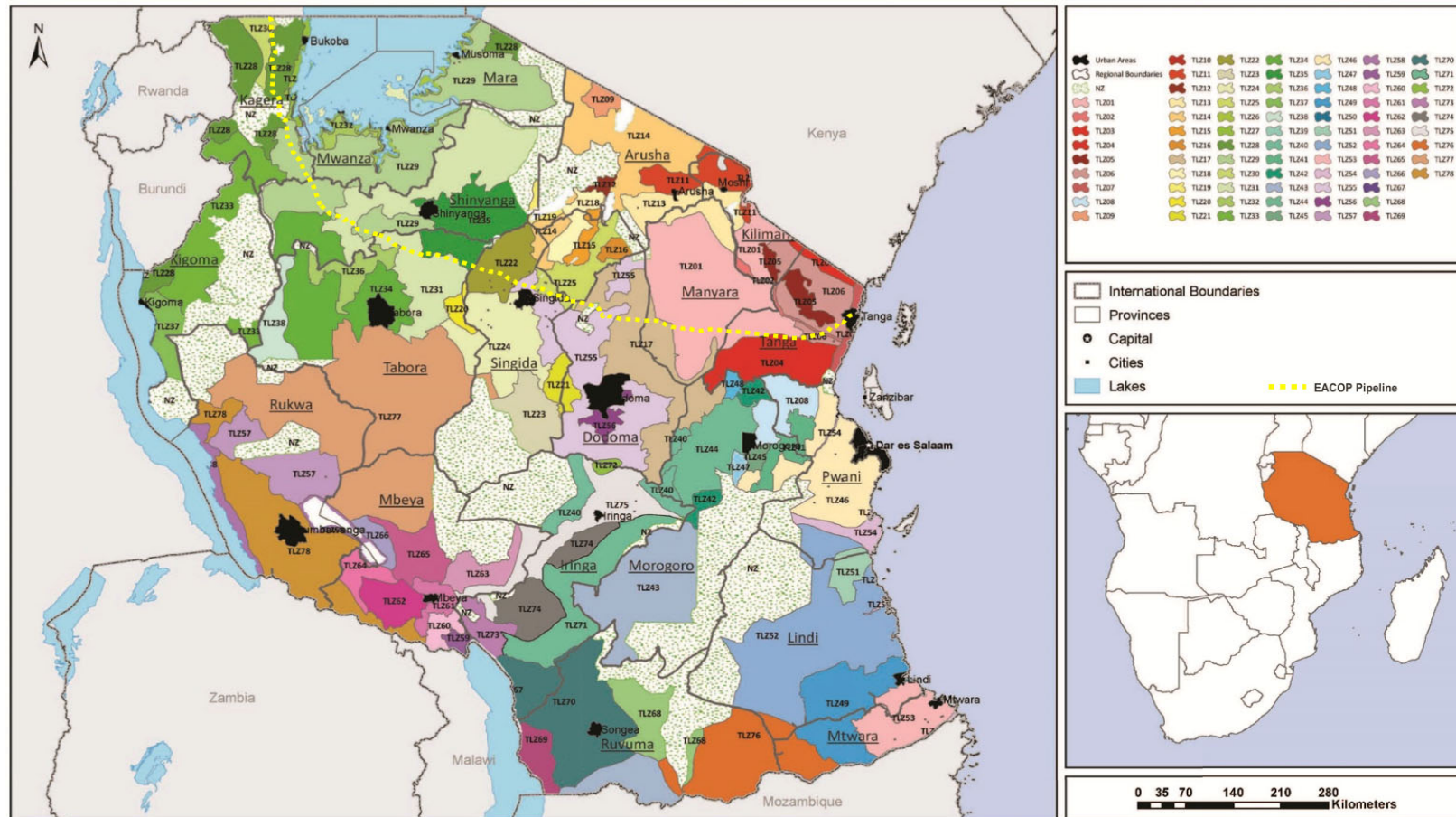


Figure 8-2: Tanzania Livelihood Zones¹⁹⁵

¹⁹⁵ Adapted from http://fewsonline.org/sites/default/files/documents/reports/TZ_Livelihoods.pdf

Table 8-2: Summary of Livelihood Activities in Kagera Region per Affected Ward

District	Ward	No of PAHs	Primary Livelihood							Role of Farming		Crops Produced								Livestock							
			Artisanal mining	Other self-employed / own business	Salaried employment	Sales of crops	Sales of livestock products	Small trading	Subsistence farming	Other livelihood	Farming main food source	Farming main income source	Maize	Beans	Cassava	Coffee	Mango	Rice	Bananas	Vegetables	Other crops	Poultry	Goats	Pigs	Cattle	Sheep	Other livestock
Missenyi	Mutukula	56		8	4	21		3	17	3	28	32	29	15	14	14	2	1	14	6	15	20	14	4	8	5	2
	Nsunga	52			6	26		1	19		25	30	26	18	4	8			16	5	24	23	15	9	10	4	6
	Kassambya	163		13	6	93		1	44	6	124	104	101	103	5	44	9		46	1	13	101	37	59	13	4	13
	Kyaka	46		4	3	28		3	6	2	30	25	28	22	3	12	2	1	9	3	8	16	10	1	4		2
	Kilimilile	61		3	2	30				23	3	45	42	29	38	8	20	3		10	1	10	30	27	1	7	1
Total		378	0	28	21	198	0	8	109	14	252	233	213	196	34	98	16	2	95	16	70	190	103	74	42	14	24
Percent of PAH			0%	7%	6%	52%	0%	2%	29%	4%	67%	62%	56%	52%	9%	26%	4%	1%	25%	4%	19%	50%	27%	20%	11%	4%	6%
Bukoba	Kyamulaile	19		2	3	9			5		14	10	8	10	2	9	2		6	1		13	10		2	2	
	Mugajwale	196		9	9	135	1	1	38	3	132	112	52	91	15	118	55		30	18	7	82	89	25	17	4	11
	Kyaitoke	139		6	7	115			6	4	80	76	31	58	8	78	82	2	1	8	6	82	50	41	17		20
	Izimbya	1		1							1		1	1													
	Kibirizi	55		1		52	1		1		40	47	10	18	4	37	30			7	4	20	39	6	6	7	9
	Rukoma	16				16					14	14	2	5		6	2	14	1		1	6	4	2	4	2	1
Total		426	0	19	19	327	2	2	50	7	281	259	104	183	29	248	171	16	38	34	18	203	192	74	46	17	41
Percent of PAH			0%	4%	4%	77%	0%	0%	12%	2%	66%	61%	24%	43%	7%	58%	40%	4%	9%	8%	4%	48%	45%	17%	11%	4%	10%
Muleba	Ngenge	410		5	6	310	2	6	75	4	266	242	132	122	213	142	120	22	9	23	28	103	154	73	32	21	28
	Burungura	113		2	1	77	1	2	28	2	71	60	31	33	74	27	28	10		14	9	25	38	18	13	6	6
	Mubunda	56		1		52	1		2		15	17	33	9	27	4	6	23		5	4	30	28	2	21	9	2
	Bisheke	30				28			2		4	4	20	4	13	2	1	8		4	6	18	13	1	7	4	
	Kasharunga	201		2	1	183	3	5	4	1	39	75	123	102	71	19	7	42	1	18	12	102	87	24	6	10	3

District	Ward	No of PAHs	Primary Livelihood							Role of Farming		Crops Produced								Livestock							
			Artisanal mining	Other self-employed / own business	Salaried employment	Sales of crops	Sales of livestock products	Small trading	Subsistence farming	Other livelihood	Farming main food source	Farming main income source	Maize	Beans	Cassava	Coffee	Mango	Rice	Bananas	Vegetables	Other crops	Poultry	Goats	Pigs	Cattle	Sheep	Other livestock
Muleba	Karambi	239		1	2	232	1		2	1	48	69	143	102	111	16	8	40	1	9	41	77	75	14	33	13	7
	Kyebitembe	11		1		10						2	6	1	4			7		2	2	5	5		3	3	
Total		1060	0	12	10	892	8	13	113	8	443	469	488	373	513	210	170	152	11	75	102	360	400	132	125	67	46
Percent of PAH			0%	1%	1%	84%	1%	1%	11%	1%	42%	44%	46%	35%	48%	20%	16%	14%	1%	7%	10%	34%	38%	12%	12%	6%	4%
Biharamulo	Nyamigogo	37				29	1		5	1	7	7	18		14			12			28	35	22		18	17	9
Total		37	0	0	0	29	1	0	6	1	7	7	18	0	14	0	0	12	0	0	28	35	22	0	18	17	9
Percent of PAH			0%	0%	0%	78%	3%	0%	16%	3%	19%	19%	49%	0%	38%	0%	0%	32%	0%	0%	76%	95%	59%	0%	49%	46%	24%
Kagera Region Total		1901	0	59	50	1446	11	23	278	30	983	968	823	752	590	556	357	182	144	125	218	788	717	280	231	115	120
Kagera Region Percent of PAH			0%	3%	3%	76%	1%	1%	15%	2%	52%	51%	43%	40%	31%	29%	19%	10%	8%	7%	11%	41%	38%	15%	12%	6%	6%

8.4.5 Livelihood Strategies

In addition to the climate and cultural practices mentioned previously, livelihood strategies are also determined by prevailing socio-economic factors, hence, they can differ widely across even a relatively small geographic area. In the Kagera region these differences are dictated by factors, such as:

- Role of, and access to markets;
- Paid labor;
- Size of agricultural land; and
- Climate variability, crop yields and adaptation.

Role of and Access to Markets

Most rural Tanzanians are partly reliant on subsistence farming of crops and livestock. However, the monetization of the rural economy is well advanced, so mechanisms for the sale of crops play a key role in the livelihoods of most rural households. In this context markets and livelihood strategies are closely interlinked.

Households use markets in many ways including:

- Poorer households very rarely produce enough food to last them until the next harvest and must, therefore, buy enough staple food to last them several months;
- Wealthier people, on the other hand, tend to use markets to sell cash crops and livestock;
- Even poor households with only six (6) months' worth of harvest in storage very often must sell some of it in order to cover pressing expenses; and
- The monetization of the rural economy is also evident in changing livelihood strategies amongst pastoralists. Pastoralist households may not own enough livestock to live on milk and meat alone, they will therefore be reliant on markets to exchange livestock and livestock products for grain and other necessities.

Kagera PAHs noted that while they might secure higher prices themselves at the big markets, transport challenges and costs make it easier to sell to the intermediaries. In addition, PAHs lack storage facilities, acting as another driver for early sales of crops¹⁹⁶.

Droughts, floods and changes to the rainfall patterns in addition to crop and livestock pests and diseases are key factors placing livelihoods at risk. The latter, while rarely at plague or epidemic level, take a significant annual toll on agricultural production in the region.

The livelihood zoning study states that market access in TLZ 28 and 30 is good with roads linking the zones to larger trading centers. However, roads from most villages and hamlets to

¹⁹⁶ SELI Team 1, 2018 / 2019. See Chapter 5.

markets are sometimes poor during the rainy season making it difficult to reach the major markets. Village markets are usually accessible to villagers, regardless of weather.

The timing of transport to markets requires consideration of perishability. For example, moving bananas from hamlet areas to different markets requires attention to the ripening period of bananas. Bananas are therefore usually harvested at a time where travel to markets will occur during the night or the cooler times of day. Traders avoid storage and waste by trading in quantities at appropriate stages of ripening. The banana marketing system is competitive with many farmers and traders. Access to capital and product perishability are the main barriers to entry. Exports are generally limited and can vary significantly from year to year depending on the performance of annual production. Diseases (bacterial wilt, sigatoka and nematodes) and inefficient coordination in the value chain might affect banana production negatively. Poor access to market information limits the ability of farmers to capture a reasonable share of the price paid by consumers. Supply disruptions can occur during the rainy season as transport is restricted by damaged infrastructure in production areas¹⁹⁷.

Post-harvest losses are also common for cassava and maize. Although there is generally a surplus of maize, post-harvest losses could be from 15 to 30%. Intermediaries between the farmer and the market buyer reduce the profit margin on maize products for farmers. Cassava roots are processed within two to three days of harvesting due to their high perishability. Post-harvest loss is estimated at up to 30 percent largely from rotting, particularly when there is insufficient labor for timely processing. Cassava chips can be stored for two to three months before insect damage sets in and for up to a year after being smoked. Dried cassava chips are more easily marketed than unprocessed cassava and can fetch a higher price because traders find it easier to transport the chips. Cassava marketing is dominated by small traders who buy large quantities of cassava at very low prices from farmers and sell to food vendors, retailers, wholesalers and millers in urban markets. The shortest channel involves farmers selling directly to consumers and local food vendors. Another important channel involves farmers selling fresh cassava to wholesalers and medium to large millers, who in turn engage in the export of both cassava chips and cassava flour to neighboring countries including Rwanda, Uganda and the Democratic Republic of Congo¹⁹⁸.

Households with an average crop producing area of 1.2 to 2.5 acres are responsible for most coffee production. Participants in the supply chain are farmers, cooperatives, farmer groups, traders, exporters, and dry mills. Small-scale farmers trade their produce through traders and primary cooperative societies. Coffee harvested by cooperative member farmers is processed in the cooperative centers using the wet method (Arabica coffee) to obtain parchment coffee. Cooperative unions buy from the associated primary cooperative societies, arranging for hulling and grading in private mills, and then sell beans at auction or export them directly (if authorized). The cooperative unions provide bank-financed credit

¹⁹⁷ Famine Early Warning System network, Fews, October 2018. <https://fews.net>

¹⁹⁸ Famine Early Warning System network, Fews, October 2018. <https://fews.net>

resources to primary cooperative societies to enable them to afford the processing costs and to pre-finance farmers. Some exporters also have production promotion support programs to assist farmers to expand and improve production¹⁹⁹.

Paid Labor

Providing and using paid labor is another element of livelihood strategy in rural Tanzania:

- Wealthier households may use paid labor to prepare land, weed the crops, harvest them at the time required, and to tend their herds;
- Some poorer people, on the other hand, might have to engage in paid labor for parts of the year to earn money for purchasing foodstuffs and other necessities, particularly when home-produced food stocks have been depleted. Some PAH heads of household were not available during the SELI fieldwork because they were employed to work on other farms. Collective harvesting is practiced in many Sukuma communities;
- In the more productive areas people may seek local farm work, which is mostly paid in cash; and
- In less productive areas, people will often look for work in local towns or migrate for several weeks a year to work in better-favored agricultural areas or in cities.

Agricultural workers in Kagera District may be employed in two (2) ways²⁰⁰:

- Portion work, called Lubimbi (Kihaya) or Kipande (Kiswahili). The farm owner divides land into portions for casual workers. The workers work from 07h00 - 11h00 and are paid 3,000 T.Shs per day for the work done in this period; and
- Agreement work, called Maelewano²⁰¹. The farm owner and laborer discuss the work time and effort and the pay is 10,000 to 20,000 T.Shs per day. This method of work is also followed by groups of 15-20 women who join to do weeding, cultivation and harvesting.

Size of Agricultural Land

Households who are relying on support derived from a single source are more vulnerable to shocks generated by occurrences such as a land acquisition and resettlement process. PAHs that depend on land-based livelihood(s) that will be impacted by the land acquisition process, and do not have any alternatives to fall back on, are more vulnerable.

The average household size across the Project-affected wards is 5.8 persons per PAH. The 2007 / 2008 Sample Census of Agriculture for Kagera found that the average planted area per household during the Masika and Vuli rain seasons was 1.85 acres and 1.86 acres

¹⁹⁹ World Bank Group Report, Agricultural Sector Risk Assessment, Tanzania. June 2015.

²⁰⁰ SELI Team 1, 2018 / 2019

²⁰¹ Maelewano – “mutual understanding”

respectively. Averages mask the diversity of agricultural land holding and land actively cultivated, with some households being land poor. With little or no land in reserve, land poor households are especially vulnerable to land loss shocks.

PAHs in Missenyi and Bukoba Districts reported that four (4) to eight (8) acres of land were regarded as sufficient to provide for a household of ten (10) members. PAHs could not confidently give figures where intercropping occurs but three (3) to five (5) acres were the estimate in general. One acre of land was said to produce three (3) to four (4) 120 kg bags of maize with 7-8 acres enough for a family of 10. When the rain is good, up to 15 bags can be produced per acre and up to ten (10) in the case of intercropping.

For all of the pipeline RAPs a household has been considered eligible for replacement land if the PAP loses more than an acre equivalent of land but less than the average farm size (>AE but <AFS) and is identified as vulnerable²⁰². More detail about eligibility and vulnerability can be found in Chapters 6 and 9 respectively.

Climate Variability, Crop Yields and Adaptation

Agriculture in Kagera and in most parts of Tanzania is predominantly rain-fed. Consequently, long term climate changes and periodic droughts have negative impacts on agricultural yields, cash incomes and food availability – often leading to food shortages. Cultivation of land commences after the first rain. Some PAHs reported manually irrigating their fields using a container carried on their backs. Many PAHs noted changes in precipitation patterns, with rain reportedly coming later than usual. Several respondents attributed these changing weather patterns to climate change.

Late rain results in PAHs finishing stored food with no harvest available to replenish the stock. The knock-on effect of dry spells (or even a single dry spell) can be severe for households that do not have diverse livelihood sources.

The SELI team observed relief and delight among PACs when rain finally arrived in December 2018 and land could be prepared for cultivation. PACs respond to drought differently, depending on availability of alternative water sources, access to financial resources and the capacity to diversify livelihood resources.

Long-term climate change may exacerbate the inter-seasonal weather risks facing the agricultural sector. The ability / lack of ability to adapt, is a key determining factor in a household's long-term food security. Opportunities for sustainable use of resources are as follows²⁰³:

²⁰² Acre Equivalent (AE): A measure of the relative productivity of arable land in a Project-affected district. It is the ratio of two numbers: (a) the number of acres of land that a household in a district needs to sustain itself (taking into account staple crops and their prevalence in that district, as well as district-specific crop yields and average household size); and (b) the average number of acres of land per household across all Project affected districts (2.57 acres, as reported in 2007 / 2008 agricultural census data). Average Farm Size (AFS): The average agricultural (crop) land holding per household in a district, as reported in 2007 / 2008 agricultural census data.

²⁰³ AFRICA soil health consortium, 2015. Banana-coffee system cropping guide; Food and Agriculture

- In light of limited land availability, support for intensive systems of production;
- Intercropping of perennial crops such as coffee and banana with legumes that can be mulched into the soil after harvest;
- Availability and use of suitable manure;
- Integration of crop and livestock production systems to ensure recycling of farm resources (use of manure for fertilizer);
- Ensuring that land husbandry practices cause minimum disturbance to the soil;
- Effective and efficient use of mineral fertilizers;
- The control of soil erosion in the Kagera River Basin; and
- Intercropping of maize and beans is possible but a suitable system of crop rotation would be more sustainable.

8.4.6 Ward Specific Livelihood Considerations

Ward specific considerations that might have a bearing on the selection of livelihood restoration / improvement strategies, scope, approaches and measures, are summarized in Table 8-3 (source SELI). These considerations may apply to other wards but these have not been explicitly mentioned in interactions with PAHs and PAPs.

Table 8-3: Ward-specific Issues Impacting Livelihoods

Impact or Influence	Ward
Missenyi	
Lack of support from government, specifically on disease control.	Across the wards.
Lack of reliable markets in the village / permanent market / cash crop market.	Igayaza and Mabuye villages in Nsunga Ward, Nyabihanga and Mabuye villages in Kasambya Ward and Kilimilile Village in Kilimilile Ward.
Flooding of land during the rainy season, heavy rains destroy crops.	Mutukula, Nsunga, Kasambya and Kilimilile Wards.
Unreliable rainfall / lack of rainfall. Heavy rains - crops rot; little rain - reduced crops.	Nsunga and Kasambya Wards.
Limited capital to grow crop and cash base.	Nsunga, Kyaka and Kilimilile Wards.
Poor agricultural methods leading to reduced production.	Kasambya Ward
Lack of agricultural aids like fertilizer and power tillers.	Nsunga and Kasambya Wards.
Yellow disease / Myauko disease on bananas.	Nsunga, Kyaka and Kilimilile Wards.
Delayed payment by buyers of coffee, sugar cane and fruit.	Nsunga and Kilimilile Wards.
Price fluctuations.	Nsunga and Kilimilile Wards.

Organization of the United Nations (FAO); Dalberg, July 2015. Financial Inclusion for Smallholder Farmers in Africa Programme (FISFAP) of Alliance for a Green Revolution in Africa (AGRA); Lake Victoria Basin Commission.

Lack of maize crop markets.	Byamtemba Village, Nsunga Ward.
Maize crop diseases.	Kasambya Ward.
Decrease in land fertility.	Kasambya Ward.
Wild animals eat crops.	Nsunga and Kilimilile Wards.
Surplus crops leading to lower prices.	Kasambya Ward.
Weeds (bugweed and blackjack).	Kasambya Ward.
Kagera Sugar opens irrigation channels, flooding maize lands.	Nsunga Ward.
Bukoba	
Droughts.	All wards.
Diseases.	All wards.
Poor market access	Mugajwale, Kamuli, Izambya and Rugaze Wards.
Transportation of crops to markets.	Kamuli and Rugaze Wards.
Access to and availability of agricultural inputs / equipment.	Kamuli and Rugaze Wards.
Poor quality agricultural equipment.	Rugaze Ward.
Poor farming methods.	Mugajwale and Kyaitoke Ward.
Poor coffee market.	Kyamulaile Ward.
Restrictions on pesticides (coffee fair trade).	Kyamulaile and Izambya Ward.
Lack of cash for pesticides.	Kyaitoke Ward.
Delayed payment.	Kyaitoke Ward.
Lack of capital.	Rugaze Ward.
Lack of a processing industry.	Rugaze Ward.
Muleba	
Lack of fertilizer.	Kasharunga Ward.
Insufficient water.	Kasharunga Ward.
Sale of coffee directly to cooperative. No middleman but takes longer to get paid.	Coffee producers.
Lack of rain for coffee. Coffee must flower properly for a good harvest and after one bad harvest it takes three (3) years to flower adequately.	Coffee producers.

8.5 Assessment of Livelihood Impacts

8.5.1 Sustainable Livelihoods Framework

Livelihood Impacts have been assessed in the context of the Department for International Development (DFID) Sustainable Livelihoods Framework that defines a sustainable livelihood as that which is able to withstand socio-economic or political shocks as well as enhance the well-being of present and future generations, without causing harm to the natural environment / depleting natural resources²⁰⁴.

²⁰⁴ DFID (1990). Sustainable Livelihoods Guidance Sheets. London. Department for International Development.

This ensures that a holistic assessment is undertaken which considers qualitative natural, physical and financial impacts as well as quantitative impacts on the social and human aspects of livelihood strategies.

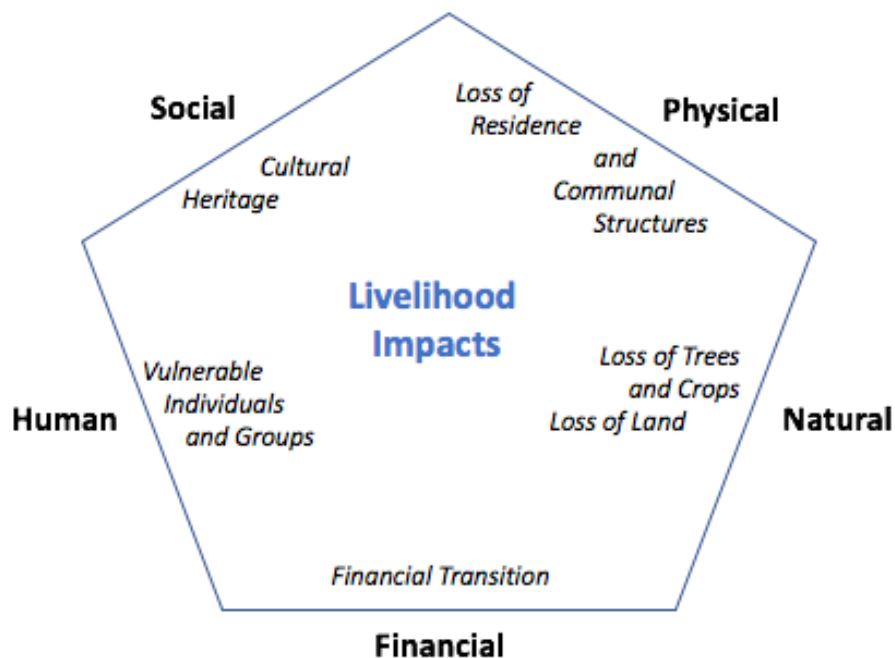


Figure 8-3: Impacts categorized using DFID Sustainable Livelihoods Framework.

Impacts identified in the Project area due to land acquisition and resettlement include:

- Loss of land;
- Loss of residences;
- Loss of trees and crops;
- Loss of communal resources;
- Impact on institutional structures;
- Impact on graves and areas of cultural heritage; and
- Impact on vulnerable individuals and groups.

8.5.2 Summary of Displacement Impacts in Kagera Region

Key points of the assessment of displacement impacts on livelihood strategies of PAPs in Kagera include (see Chapter 5, Table 5-1):

- The pipeline traverses 146.36 km in Kagera Region;
- A total of 1,429.57 acres of land is affected by the pipeline;
- The Project affects 2,172 land parcels, predominantly under unregistered customary right of occupancy;

- 107,304 crop stems and 123,244 trees are affected;
- The majority of PAHs use the affected land for crop cultivation seasonally or throughout the year;
- Crop production is undertaken by all PAHs within the Kagera Region, with many indicating the sale of crops as a primary livelihood activity;
- Crop production is undertaken by 52% of households as a principal source of food;
- Seasonal jobs linked to agriculture are taken up by many PAHs to supplement household incomes during lean months at the beginning of the cropping season;
- Nearly a third of the PAPs will lose economic trees, specifically mango trees;
- While crops are a major source of food security and income for PAHs, cattle and other livestock represent an important source of supplementary income for some PAHs. Loss of access to grazing land may impact livestock linked income, for example from the sale of livestock products such as eggs, milk and manure. Livestock also act as a non-cash reserve which can be used to finance children's education, to supplement food supplies and to cover medical emergencies and funerals;
- The pipeline corridor will traverse Village and Reserved Land in places. In the former case the corridor will be restored to grassland following construction and in the latter case biological capacity will be restored. Both approaches will allow continued community use; and
- The vast majority of PAHs are likely to need some form of financial literacy and management training to prepare them for the cash they receive as compensation. This is to encourage the use of this money to assist in the restoration of their livelihoods.

The detailed LRP for Kagera has been developed to leverage off existing PAH livelihood strategies. Where crop production forms an essential part of their livelihood strategies, there will be a focus on relevant crop improvements and support programs as well as livestock improvement programs.

8.6 Eligibility for Livelihood Restoration Support

The Project will offer livelihood restoration assistance depending on the significance of impacts on the livelihood of a PAP and their resilience to restore livelihoods. As discussed in previous sections, the majority of PAHs are reliant on land-based livelihood activities, and therefore the identification of suitable replacement agricultural land (where PAP is eligible) is a key component of a successful livelihood restoration. The nature (location, soil quality etc.) and extent of agricultural land are significant factors in yield. Table 8-4 below provides an overview of the replacement land entitlements of PAPs which is directly linked to the relevant livelihood restoration.

Table 8-4: Replacement Land Entitlements

Replacement Land Eligibility Category	Criteria	Replacement Land Entitlements	Livelihood Restoration Support Entitlements
0	Physically displaced PAP whose dwelling is affected and is eligible for replacement housing.	<ul style="list-style-type: none"> To be offered cash compensation option or in-kind land replacement option (provided land is available in the ward), otherwise an alternative livelihood program (with cash compensation); and Where PAP selects replacement house they will be provided with (as a minimum) a Residential Plot only. 	<ul style="list-style-type: none"> Land and non-land-based group level livelihood restoration programs; and Individual level livelihood restoration program (G1).
1	PAP loses < AE ²⁰⁵ OR > AFS ²⁰⁶ (average farm size).	<ul style="list-style-type: none"> Cash compensation for the land. 	<ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s) (G4).
1a	PAP will lose <AE and is identified as vulnerable.	<ul style="list-style-type: none"> Cash compensation for the land. 	<ul style="list-style-type: none"> Group level land-based and non-land-based livelihood restoration program(s); and Individual level livelihood restoration program(s) (as appropriate to vulnerability factors of PAPs) (G2).
2	PAP will lose >AE BUT <AFS.	<ul style="list-style-type: none"> Cash compensation for the land; and Assistance in formalizing appropriate tenure to alternative land within the ward (where requested, and land being self-identified by PAPs). 	<ul style="list-style-type: none"> Group level land-based, and non-land-based livelihood restoration program(s) (G4).
2a	PAP will lose >AE BUT <AFS and is identified as vulnerable.	<ul style="list-style-type: none"> To be offered cash compensation option or in-kind replacement of land option (provided land is available in the ward), otherwise an alternative livelihood program (with cash compensation). 	<ul style="list-style-type: none"> A group level livelihood program; or An individual level livelihood program (G3).
2b	Tenant PAP on acquired land parcels >AE who will lose crops, trees or other assets >T.Shs. 100,000 in value, but not land or residential dwellings.	<ul style="list-style-type: none"> No land entitlement. 	<ul style="list-style-type: none"> Non-land-based group level livelihood restoration (i.e. Money Management, and Entrepreneurial Training); and Group level livelihood program – where tenant PAPs have lost >AE and have self-identified and secured / have access to

²⁰⁵An acre equivalent (AE) which takes into account the productivity of the land in the district and the average number of household members for households in the district.

²⁰⁶ AFS – average farm size for the district.

Replacement Land Eligibility Category	Criteria	Replacement Land Entitlements	Livelihood Restoration Support Entitlements
			alternative land to farm (G5).
3	PAP compensated for crops, trees and other assets including other non-residential structures) valued at T.Shs. 100,000 or more.	<ul style="list-style-type: none"> • No land entitlement. 	<ul style="list-style-type: none"> • Non-land-based or non-crop-based livelihood restoration programs (i.e. Money Management and Entrepreneurial Training, livestock program, beekeeping program); and • Livelihood program will be commensurate to assets lost (G6).
3a	PAP will lose crops, trees or other assets, but not land or residential dwellings and total cash value of compensation is less than T.Shs. 100 000.	<ul style="list-style-type: none"> • No land entitlement. 	<ul style="list-style-type: none"> • Not eligible for livelihood restoration programs (G7).

From the review of impacts on livelihood strategies, criteria were established (see Table 8-4) to determine the type of livelihood assistance to be offered to PAPs.

Livelihood restoration is structured around group-level livelihood restoration measures based on the significance of impacts on the PAPs (e.g. economic displacement). In addition, some PAPs will require access to individual level livelihood restoration support, e.g. physically displaced PAPs and those with vulnerabilities, as they are unable to restore their livelihoods without further assistance due to the degree of Project impact and / or lack of resilience or social standing.

These livelihood restoration entitlements will have a cumulative value for those PAPs with multiple affected land parcels. Both land and non-land-based measures are contained within the livelihood restoration program.

Because this LRP describes the proposed approach and measures / programs to be made available and accessible to eligible PAPs the existing programs and agencies delivering livelihood restoration in the Kagera Region have been reviewed. This is described in Section 8.7.

Table 8-5 provides an overview of PAP eligibility and eligible figures for the different types of livelihoods support.

Table 8-5: Overview of Livelihood Restoration Eligibility

Livelihood Restoration Group	Replacement Land Eligibility Category	Criteria	Type of Livelihood Restoration Support	Districts																	Totals Per Livelihood Restoration Group		
				Missenyi					Bukoba					Muleba					Biharamulo				
				Mutukula	Nsunga	Kassambya	Kyaka	Kilimilile	Kyamulalile	Mugajwale	Kyaitoke	Izimbya	Kibirizi	Rukoma	Ngenge	Burungura	Mubunda	Bisheke		Kasharunga		Karambi	Kyebitembe
G1	0	PAP will permanently lose access to his / her residential dwelling(s).	Land or non-land-based group level livelihood restoration program. Individual level livelihood restoration program.	2	2	15	0	3	2	10	13	0	1	0	23	8	8	3	8	8	0	2	108
G2	1a	PAP will permanently lose access to his / her land and is identified as vulnerable.	Group level land-based and non-land-based livelihood restoration program(s); and Individual level livelihood restoration program(s) (as appropriate to vulnerability factors of PAP).	12	7	33	15	12	3	63	24	0	14	0	144	60	20	5	49	80	2	6	549

Livelihood Restoration Group	Replacement Land Eligibility Category	Criteria	Type of Livelihood Restoration Support	Districts																	Totals Per Livelihood Restoration Group		
				Missenyi					Bukoba					Muleba					Biharamulo				
				Mutukula	Nsunga	Kassambya	Kyaka	Kilimilile	Kyamulalile	Mugajwale	Kyaitoke	Izimbya	Kibirizi	Rukoma	Ngenge	Burungura	Mubunda	Bisheke		Kasharunga		Karambi	Kyebitembe
G3	2a	PAP loses > AE (more than an acre equivalent of land) but < AFS (less than the average farm size) for the District and is identified as vulnerable.	A group level livelihood program; and An individual level livelihood program.	1	5	7	3	11	1	0	0	0	2	0	1	0	1	1	1	5	1	4	44
G4	1 and 2	PAP will permanently lose access to his / her land in part or whole.	Group level land-based and non-land-based livelihood restoration program(s).	45	42	83	15	29	12	93	71	1	34	2	211	34	23	12	104	127	8	18	964
G5	2b	Tenant PAP will lose > AE of crops and / or trees, but not compensated for land.	Land-based and non-land-based group level livelihood restoration programs (i.e. Money	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	5

Livelihood Restoration Group	Replacement Land Eligibility Category	Criteria	Type of Livelihood Restoration Support	Districts																	Totals Per Livelihood Restoration Group			
				Missenyi					Bukoba					Muleba					Biharamulo					
				Mutukula	Nsunga	Kassambya	Kyaka	Kilimilile	Kyamulalile	Mugajwale	Kyaitoke	Izimbya	Kibirizi	Rukoma	Ngenge	Burungura	Mubunda	Bisheke		Kasharunga		Karambi	Kyebitembe	Nyamigogo
			Management and Entrepreneurial Training); and Group level livelihood program – where tenant PAPs have lost > AE and have self-identified and secured alternative land.																					
G6	3a	PAPs compensated for crops, trees and other assets including other non-residential structures) valued at T.Shs. 100,000 or more.	Non-land-based or non-crop-based livelihood restoration programs (i.e. Money Management and Entrepreneurial Training, Beekeeping Program); and Livelihood program will be commensurate to	0	2	23	6	2	1	15	8	0	3	7	14	2	5	5	25	11	1	6	136	

Livelihood Restoration Group	Replacement Land Eligibility Category	Criteria	Type of Livelihood Restoration Support	Districts																		Totals Per Livelihood Restoration Group	
				Missenyi					Bukoba					Muleba					Biharamulo				
				Mutukula	Nsunga	Kassambya	Kyaka	Kilimilile	Kyamulalile	Mugajwale	Kyaitoke	Izimbya	Kibirizi	Rukoma	Ngenge	Burungura	Mubunda	Bisheke	Kasharunga	Karambi	Kyebitembe		Nyamigogo
			assets lost.																				
			(G7) PAPs with a total cash value of compensation of < T.Shs. 100,000 or who receive compensation for graves only, will not be eligible for livelihood restoration programs.	1	3	25	10	5	1	32	30		9	8	56	17	4	5	30	22	0	0	258

8.7 Current Livelihood Improvement Programs

Where possible, the Project will look to leverage and learn from current livelihood improvement programs being implemented in the area.

Information about current programs being implemented in proximity to Project sites was gathered in consultation with the local authorities, including District Land Officers, District Agricultural Officers, Village Authority representatives and Ward Executive Officers (WEOs).

In addition, several meetings were held with the Tanzanian Social Action Fund (TASAF) at district, regional and head office levels. Currently, livelihood programs in the region are being implemented by NGO's, CBO's and the GoT.

8.7.1 Overview of Livelihood and Related Empowerment Programs offered by NGOs and CBOs

Organizations focusing on programs related to livelihood improvement and livelihood-linked empowerment are listed in Table 8-6. These organizations are registered with the relevant districts. There may be opportunity to collaborate with some of the programs listed in support of livelihood restoration.

Table 8-6 : Summary of Empowerment and Livelihood Improvement Programs

Non-Government Organizations (NGOs) and Community-Based Organizations (CBOs)	Summary of Relevant Empowerment and Livelihood Improvement Programs
Group name	Activities
Missenyi District	
World Vision	Supporting orphans, implementation of agricultural projects, water and health education.
Health, Gender and Environmental Association (HEGEA)	Supporting environmental protection, providing information and education on HIV / AIDS, malaria, land use, good governance, human rights and gender equality.
Bukoba District	
Bukoba Women Empowerment Association	Empowering women economically.
Kolping Society of Tanzania	Providing agriculture and business development advice.
Sarepta Women Group	Empowering women and youth economically and caring for the environment.
Centre for Development Initiatives	Improving food security, reducing poverty, increasing income, providing education for farmers.
Kagera Women Empowerment Facility (Kawef)	Addressing privacy rights, HIV / AIDS and orphans, environmental conservation, increasing the ability of women and youth to make decisions.
Rhema Jamii	Providing education in various sectors, especially agriculture.
Tumaini Women Development Association	Defending the rights of women and children by resolving conflict situations and providing legal aid. Educating the community on human rights, environmental management and economic recovery. Fighting corruption within the community.
Maendeleo ya Wakulima	Agricultural training, information on environment and natural resources

Non-Government Organizations (NGOs) and Community-Based Organizations (CBOs)	Summary of Relevant Empowerment and Livelihood Improvement Programs
Kagera Centre for Poverty Alleviation	Community education, building community capacity for budget planning
Wakina Mama Wanaoishi na Virusi Vya Ukimwi	Livestock issues, awareness and education on HIV issues.
Kagera Women and AIDS Organization	Development programs for women.
Light House Foundation	Providing basic education for youth and women, developing manufacturing and innovative products, looking for product markets, developing young talent for economic development, providing young entrepreneurs employment within the organization.
Matumaini Mapya	Supporting the cost of tuition, providing legal support, training leaders and providing subsidies to widows.
Tanzania Agriculture Modernisation	Addressing gender equity, good governance, environmental issues, HIV / AIDS and organic farming.
Rukoma Area Programme	Providing agriculture support and financing. Projects to increase incomes.
Katero Area Development Programme	Providing agriculture support and financing. Projects to increase incomes.
Ibwera Area Development Programme	Providing agriculture support and financing. Projects to increase incomes.
African Partnership on Climate Change Coalition	Providing education on the impact of climate change, planting environmentally friendly trees, encouraging women entrepreneurship and beekeeping.
Tanzania Agriculture Association (TAMA)	Developing pastoralist skills. Promoting environmental sustainability, effective land use, good governance, human rights and gender equality. Seeking to prevent new HIV / AIDS infections.
Muleba District	
Kamachumu Vision for Poverty Eradication (KAVIPE)	Providing agricultural education in the community.
Muungano wa Vikundi ya Maendeleo ya Wanawake Kamachumu (MUVIMAWAKA). The Union of Women's Development Groups Kamachumu	HIV / AIDS and gender education, supporting people living with HIV in conducting economic activities, identification of markets and promotion of environmental conservation.
Kagera Development Training Association (KADETA)	Training in rural development, including environmental conservation, effective agriculture and community health.
West Victoria Development and Health Association (WEVIDHA)	Computer training, HIV education and environmental conservation.
WAMATA	HIV / AIDS education, supporting orphans and widows, providing social health education.
Mhola (MAMS Hope Organisation for Legal Assistance)	Legal assistance in the community.
Radical Society Organisation (RSO)	HIV / AIDS education and gender issues, supporting people living with HIV in undertaking agricultural projects and promotion of entrepreneurship activities.
Tanzania Red Cross	Training in rural development activities such as environmental conservation, agriculture and social health.
MUCODA	Environmental conservation education.
RISE	Support to agriculture and livestock activities.
ACTINGONO	Assistance with water services and hygiene.
Biharamulo District	

Non-Government Organizations (NGOs) and Community-Based Organizations (CBOs)	Summary of Relevant Empowerment and Livelihood Improvement Programs
Biharamulo Rural Appropriate technology and innovation society (BRATIS)	Disseminating technology to the community.
Facilitation for Integrate Development and Relief Services (FAIDERS)	Facilitation of depositing and borrowing, environmental conservation.
Biharamulo Originating Social Economic Development (BOSEDA)	Providing AIDS education, civic education and environmental conservation advice to the community.
Community Habitat Environmental Management (CHEMA)	Supporting the community in environmental conservation through income generating activities like beekeeping.
TUMAINI Fund	Providing services / paying school fees for orphaned children, improving water services by drilling water wells / boreholes, environmental conservation and agricultural support.
Spearing for Improved Water and Sanitation (SIWASAT)	Assisting with availability and conservation of clean and safe water.
CHEMA	Marketing crops produced with non-industrial fertilizer and increasing the income of citizens.

8.7.2 Government Programs Identified

In addition to the programs and initiatives listed in Section 8.7.1, the Project will also look to partner, leverage and learn from relevant government managed and operated programs.

Agricultural Sector Development Strategy

The Agricultural Sector Development Strategy (ASDS) emphasizes agricultural modernization and commercialization. It promotes private sector development to encourage transition from subsistence agriculture to market-oriented agriculture. In 2010 Tanzania signed the Comprehensive Africa Agriculture Development Programme (CAADP) established by the African Union. Based on this framework, the Agriculture and Food Security Investment Plan (TAFSIP) was formulated in 2011. The priority investment sectors for the ten-year period 2011/12 to 2020/21 include investment to increase agricultural productivity (expanding irrigation, mechanization, R&D, improved supply of agricultural inputs) as well as improving rural infrastructure and agroprocessing.

The Agricultural Sector Development Plan (ASDP) is the implementation tool for the ASDS. It has three sub-programs: Agricultural Sector Support and Implementation at District Level, Agricultural Support at National Level, and Cross-Cutting Issues. The goal of the sub-programs is to increase rural household incomes through improved access to agricultural technology and information, marketing systems and infrastructure, as well as to attract private sector investment to improve productivity and profitability in the agricultural sector.

The ASDP entrusts project planning, implementation and monitoring to district governments. The District Agricultural Development Plan (DADP) provides the framework for district-level planning, budget execution and progress management. Some local governments have limited capacity to execute the ASDP.

TASAF Support Program

The objective of TASAF is to enable poor households to increase income and opportunities

while improving consumption. TASAF is part of the government's poverty reduction initiative.

The TASAF support program started in 2012 and in 2018 announced its continuation into a 3rd Phase of Funding. TASAF mostly works with marginalized families by providing them with access to health and education services in the form of grants paid out six (6) times per year. Families are required to register to receive grants. TASAF has three (3) components as described in Table 8-7 below.

Table 8-7: Livelihood Components of the TASAF Support Program

Component	Description of Component
Monetary Pay-out	Monetary pay-out to household beneficiaries of T.Shs. 10,000 (social grant). Each identified student in the qualifying household receives T.Shs. 2,000 per month. In order to qualify for this stipend, students must have a record of 75% school attendance. Children under the age of four (4) receive an additional T.Shs. 4,000 per month. In order to qualify for this stipend, mothers have to take the children to the clinic at least once every two (2) months, or else the benefit is forfeited.
Public Works	Public works, where grant beneficiaries are required to work on governmental developmental projects in the district. This is usually unskilled work and includes construction work, leveling contours and erosion control. This is paid employment (approximately T.Shs. 3,500 per day) and usually entails six (6) to ten (10) days per month over a four (4) month period.
Livelihood Enhancement	Livelihood enhancement. This includes the formation of groups / committees responsible for maintenance tasks in a village; construction of houses; running a nursery (seedlings are distributed to beneficiaries); water conservation projects (including constructing dams for harvesting rainwater and shallow wells); establishing vegetable gardens. A budget provided by government is utilized via a village fund. The money is distributed by a Community Management Committee, which also provides advice and input regarding potential investments, income generation and general improvement of living conditions. Support is also provided in the selling of high yield crop species mainly beans and maize.

8.7.1 Additional Programs and Collaborations

Additional livelihood improvement programs and collaborations identified during consultations and currently active in the Kagera Region are discussed in this section:

- In response to the effects of the earthquake in 2016, the Missenyi, Bukoba and Muleba District Councils are working in collaboration with the Food and Agriculture Organization (FAO) of the UN. The joint program seeks to strengthen the resilience of agricultural systems in the context of climate change and natural disasters, whilst also ensuring access to nutritious food and the growth of cash crop farming.
- Farm Radio is a radio station serving the Kagera Region. It focuses on agricultural development. Farm Radio collaborates with three (3) NGOs to promote agriculture. Tidja is one of the NGOs participating in the program. Tidja sells different types of maize seedlings to farmers, assists them to plant, researches the performance of seedlings and engages with markets.
- The Tanzanian Government supports loans to groups engaging in agricultural activities. These must be repaid after a year. In Missenyi District, agricultural extension officers assist loan recipients and visit the supported groups at least once a season.

- Other assistance includes providing access to storage bags that are treated to keep maize in a good condition during storage. Participants are given the opportunity to attend training programs. Africa Harvest and the Maruku Agricultural Institute are training service providers active in this context.
- The Maruku Agricultural Institute is a part of the Tanzania Agricultural Research Institute and is governed by the Tanzania Agricultural Research Institute Act, 2016. It is responsible for the whole Lake Zone (Geita, Simiyu, Shinyanga, Kagera, Mara and Mwanza). The Institute's main responsibilities are: ensuring availability of seeds and saplings (potato, banana, cassava, beans); training in agricultural practices; conducting research on agricultural diseases; and increasing productivity of varieties of food and economic crops and trees.
- The Maruku Institute, as support to the Tanzania Coffee Research Institute, also focuses on the development of the Robusta coffee industry in Kagera. In this role it disseminates proven technologies to district extension staff, farmers and estates. This is done through the provision of training courses and conducting research.

Apart from the collaborations listed above there are many government and government-affiliated institutions they may be interested in assisting the elaboration of LRPs and in involvement in aspects of livelihood restoration implementation. These are listed in Table 8-8.

Table 8-8: Potential Livelihood Restoration Collaborators

- | |
|---|
| <ul style="list-style-type: none"> • Animal Disease Research Institute (ADRI) • Agricultural Research Institute (ARI) UKIRIGURU • Tea Research Institute Tanzania (TRIT) • Central Veterinary Laboratory • Livestock Research Centre • Livestock Production Research Institute • Tanzania Fisheries Research Institute (TAFIRI) • Tanzania Forestry Research Institute (TAFORI) • Tanzania Wildlife Research Institute (TAWIRI) • National Institute for Medical Research (NIMR HQ) • Mwanza Medical Research Centre (Part Of NIMR) • Tanzania Food and Nutrition Centre (TFNC) • Centre For Agricultural Mechanization and Rural Technology (CAMARTEC) • Tanzania Industrial Research and Development Organization (TIRDO) • Small Industries Development Organization (SIDO) |
|---|

8.8 Livelihood Restoration Plan (LRP)

Further to the earlier commentary, the Livelihood Restoration Plan (LRP) acknowledges the five (5) key assets required to sustain livelihoods, namely social, physical, natural, human and financial capital which set the framework for the LRP. The LRP will look to promote and strengthen these assets through the following potential activities, programs and initiatives:

Natural Capital involves:

- Land-based Livelihood Restoration Programs;
 - Technical support in the improvement of agricultural practices – generation and use of compost, drought resistant seeds, crop management;
 - Post-harvest handling of crops to decrease spoilage and loss of harvest;
- Increased value adding initiatives;
- Strengthening market access; and
- Sustainable use of natural resources for income generation (mushrooms, beekeeping, building materials, medicinal plants, insects).

Human Capital:

- Building on the existing skill base of the PAPs – agriculture, brick making, welding, food preservation, beekeeping;
- Enhancing the skills of PAPs through training programs – business management, financial planning and management, marketing, etc.;
- Identifying impediments to PAPs education and health care, and facilitation of improvements where relevant to livelihood resilience and sustainability; and
- Extending skills enhancement to the children of PAPs where appropriate to livelihood sustainability.

Social Capital:

- Facilitating linkages between PAPs and social institutions to enhance economic benefit and flow of income and support grants;
- Empowering producer organizations to link with economic institutions to support local economic development;
- Empowering local social structures to support local economic development and effective use of land-based resources;
- Identifying and supporting vulnerable households with appropriate targeted initiatives; and
- Ensuring that the integrity and self-worth of vulnerable households is maintained..

Physical Capital involves:

- Minimizing impact and loss of access to physical capital to enable PAPs to support their families;
- Strengthening market access; and
- Providing appropriate modern equipment and technology to support economic activities.

Financial Capital involves:

- Facilitating access to financial instruments to enhance PAPs ability to grow economically; and
- Empowering PAPs to earn an income (community based works programs, use of local labor), while re-establishing livelihood and economic activities.

8.8.1 Livelihood Restoration Themes

Themes linked to the restoration of agricultural livelihoods featured prominently in livelihood restoration discussions with Kagera PAHs. In this context, several areas of possible post-resettlement support were identified:

- Assistance with identification of replacement farmland to ensure that it is suitable for agricultural activities;
- Assistance with efficient and timely clearing of land for cultivation. A tractor may be required to clean new land that had not been used for agricultural activities;
- Assistance with preparation of new farmland to the same level of fertility as the current farm;
- Assistance and training with cultivating new crops such as rice paddy farming on dry land and sunflower farming;
- Cultivation, seeding and weeding of new farmland;
- Provision of suitable seedlings;
- Assistance with restoring livelihoods: maize, bananas, beans and rice;
- Assistance with food during the period it takes to establish and harvest long term crops such as banana, cassava and coffee;
- Education of farming methods and crop alternatives;
- Assistance with growing trees that will be lost and are currently used for firewood;
- Irrigation pumps;
- Supplying pesticides and improved seeds;
- Manure and other fertilizers; and
- Assistance with crop commercialization.

Further areas for potential support identified by PAPs were:

- Improved roads;
- Training on management of money;
- Improved beekeeping practices; and
- Assistance with transportation (by vehicle or by foot) and settling in of livestock.

The livelihood restoration program (LRP) options presented in Section 8.8.2 respond to many of the suggestions above. All LRP options are presented in the form of ‘training’ and ‘capacity building’ modules to groups of qualifying PAPs. One-on-one interventions will be offered to PAPs identified as particularly vulnerable, i.e. those PAPs that possess a lack of resilience to the upheaval and dislocation related to resettlement, be it because of illness, age, physical ability, marginalization, or other personal circumstances. Mitigation measures will be planned to take account of each individual situation, women and men will have equal

entitlement to any livelihood restoration measures. Many PAPs will receive some form of cash payment, with this in mind, a money management / entrepreneurial training program (linked to agricultural activities from a small business perspective) is a non-land-based livelihood restoration program on offer.

In the Kagera context, the Sukuma people have a rich knowledge of their natural resources and ways of managing them. This traditional knowledge and the institutions that manage the resources may serve to strengthen livelihood restoration management and implementation in the Project-affected communities and among PAPs.

8.8.2 Livelihood Restoration Activities and Program Options

The Livelihood Restoration options available to PAPs are outlined in Table 8-9 and the livelihood restoration activities around which these are formed are presented in Tables 8-10 – 8-17. These programs may alter and will be developed in further detail during the implementation.

Table 8-9: Livelihood Restoration Options

Livelihoods Restoration Options – Groups 1; 2; 3 & 4	
(Group 1, 2 & 3 PAPs will be given access to some individual and additional targeted support to access these programs and help restore livelihoods).	
Phase 1 Implementation	
Core (Groups 1; 2; 3 & 4) – all eligible households entitled to:	Replacement Land (for those who are eligible) – commensurate to land lost.
	Land Preparation and Planting of Replacement Agricultural Land (LRA1). (<i>Group 1 and Group 3 only</i>)
	Maize & Rice Improvement program (LRA2).
	Household Budgeting & Money Management Training (LRA8).
Phase 2 Implementation	
Optional	Option 1: Poultry Production Program (LRA4).
	Option 2: Livestock Improved Husbandry Program (LRA5).
	Option 3: Crop Diversification (LRA3).
	Option 4: Improved Beekeeping Practices (LRA6).
Groups 2 & 4 – each household is entitled to one (1) option.	Enterprise Development (LRA7) ²⁰⁷ (Each eligible household is entitled to access one (1) support package).
Groups 1 & 3 – each household is entitled to two (2) options:	
Livelihoods Restoration Options – Group 5 & 6 (i.e. agricultural tenants).	
Phase 1 Implementation	
Core (Group 5 & 6) – all eligible households are entitled to:	Enterprise Development (LRA7) (Each eligible household is entitled to access one (1) support package).
	Household Budgeting and Money Management Training (LRA8) (Affected Wards along pipeline corridor).
Phase 2 Implementation	
Optional (Group 5 & 6) – each household is entitled to one (1) option:	Option A: Poultry Production Program (LRA4)
	Option B: Improved Beekeeping Practices (LRA6)
Core (Group 7).	Not eligible for livelihood restoration programs.

²⁰⁷ Within the livelihood restoration activities training and capacity building is incorporated The Project will consider also supporting PAPs to access vocational training opportunities.

Table 8-10: Livelihood Restoration Activity 1 (LRA1)

LRA 1	Land Preparation and Planting of Replacement Agricultural Land
Context	Re-establishment of livelihood activities of eligible PAPs who lose access to productive agricultural lands.
Objectives	Re-establish agricultural activity to enable PAPs to generate the same level of income and / or food security as achieved on land acquired by the Project.
Outcomes	<ol style="list-style-type: none"> 1. Income generated is equal to income produced off acquired land by the Project, and / or 2. Quantity of food harvested is equal to quantity lost off acquired land by the Project.
Spatial Application	Affected Wards along the pipeline corridor.
Beneficiaries	Groups 1 and 3 PAPs who lose access to productive agricultural lands as well as vulnerable groups identified as requiring assistance in re-establishing their agricultural production activities.
Potential Partners	<ul style="list-style-type: none"> • District Agricultural Officials • Local district-based NGO's • Local land preparation contractors (tractor operators) • Local community-based labor
Key Activities	<ol style="list-style-type: none"> 1. Identify implementation partner in collaboration with District Agricultural Office 2. Assess suitability of land for crop production: <ol style="list-style-type: none"> a. Soil fertility b. Type of crops 3. Procure contractors to prepare land 4. Provide appropriate input supplies (fertilizer; seeds) 5. Prepare and plant land 6. Monitor crop management activities 7. Identify suitable crop types and provide assistance to harvest crops 8. Provide assistance in delivering harvest to market where required
Monitoring and Evaluation	<ol style="list-style-type: none"> 1. Yields harvested off prepared lands 2. Income generated off prepared lands 3. Replanting of agricultural land post-harvest 4. Access to food year-round by PAH

Table 8-11: Livelihood Restoration Activity 2 (LRA2)

LRA 2	Maize & Rice Improvement Program
Context	Maize, cassava and beans are the main food crops across ethnic groups in the Kagera Region. Bananas are an important crop for the Haya ethnic group and rice for the Sukuma group. Overall, rice is an important cash and food crop.
Objectives	<ol style="list-style-type: none"> 1. To improve the existing maize and / or rice production of eligible PAPs 2. To increase the yield of existing maize and / or rice production of eligible PAPs 3. To increase the income generated from maize and / or rice by eligible PAPs 4. To improve the drought resilience of eligible PAPs maize crops
Outcomes	<ol style="list-style-type: none"> 1. Adoption of improved maize and rice production practices by eligible PAHs 2. Improved resilience of eligible PAPs maize crop to drought conditions 3. Increased the income generated from maize and / or rice by eligible PAPS 4. Increased food security of eligible PAHs
Spatial Application	Affected Wards along the pipeline corridor.
Beneficiaries	Groups 1; 2; 3 & 4 PAPs who lose access to productive agricultural lands as well as vulnerable groups identified as requiring assistance in re-establishing their agricultural production activities.
Potential Partners	<ul style="list-style-type: none"> • District Agricultural Officials • Local district-based NGO's (eg. Tanzania Agricultural Association (TAM)) • Local land preparation contractors (tractor operators) • Local community-based labor
Existing Programs (some not region or district specific)	<ul style="list-style-type: none"> • Helvetas • World Vision Area Programs • GoT – programs to improve yields and production
Key Activities	<ol style="list-style-type: none"> 1. Identify the effectiveness of farmer associations as an implementation platform 2. Training on improved production practices 3. Demonstration plots 4. Access to drought resistant seed varieties 5. Improved post-harvest storage technologies 6. Improved access to markets and efficient processing (milling) facilities
Monitoring and Evaluation	<ol style="list-style-type: none"> 1. Improvement in maize and rice yields 2. Increased income from maize and / or rice crops 3. Adoption of improved production practices 4. Improved access to food year-round by PAH

Table 8-12: Livelihood Restoration Activity 3 (LRA3)

LRA 3	Crop Diversification Program
Context	<p>The Comprehensive Food Security and Vulnerability Analysis, Tanzania 2012 report, identifies the lack of crop diversity as one (1) of the factors contributing to both food insecurity and household vulnerability. While maize is the dominant crop produced across the areas affected by the pipeline corridor, other crops are also produced (rice, beans, cassavas, sunflowers, bananas) and the improvement in production practices and yields of these crops will also have a significant impact on the food security and income generation of PAHs. The crops will vary across the region, as well as with the personal preference of the PAHs, however the basic principles of production will remain the same with minor adjustments to accommodate specific crops.</p> <p>Coffee, sugar cane and bananas are among other crops that are cultivated by PAHs in Kagera Region. Coffee, sugar cane, rice, tea, cotton, tobacco and vanilla.</p>
Objectives	<ol style="list-style-type: none"> 1. To improve crop production of eligible PAPs. 2. To increase the yield of crop production of eligible PAPs. 3. To increase the income generated from crops by eligible PAPs. 4. To improve the drought resilience of eligible PAPs crops. 5. To encourage the diversification of cropping practices of PAHs
Outcomes	<ol style="list-style-type: none"> 1. Adoption of improved crop production practices by eligible PAHs 2. Improved resilience of eligible PAPs crop to drought conditions 3. Increased the income generated from crops by eligible PAPS 4. Increased food security of eligible PAHs 5. Diversified crop production by PAHs
Spatial Application	Affected Wards along the pipeline corridor.
Beneficiaries	Groups 1; 2; 3 & 4 PAPs who lose access to productive agricultural lands as well as vulnerable groups identified as requiring assistance in re-establishing their agricultural production activities.
Potential Partners	<ul style="list-style-type: none"> • District Agricultural Officials • Local district-based NGO's (eg. Kolping Society of Tanzania) • Local land preparation contractors (tractor operators) • Local community-based labor
Existing Programs (some not region or district specific)	<ul style="list-style-type: none"> • Rukoma, Katero and Ibwera Area Development Programs • Kolping Society of Tanzania • World Vision Area Development programs • RUDIDO sustainable land use and agricultural programs • CHEMA agricultural programs
Key Activities	<ol style="list-style-type: none"> 1. Identify the effectiveness of farmer associations as an implementation platform 2. Training on improved production practices 3. Demonstration plots 4. Access to drought resistant seed varieties 5. Improved post-harvest storage technologies 6. Improved access to markets and efficient processing (milling) facilities
Monitoring and Evaluation	<ol style="list-style-type: none"> 1. Improvement in crop yields 2. Increased income from crops 3. Adoption of improved production practices 4. Improved access to food year-round by PAHs

Table 8-13: Livelihood Restoration Activity 4 (LRA4)

LRA 4	Poultry Production Program
Context	Poultry is kept by the majority of the PAHs. Chicken production is an important source of animal food and income for rural subsistence producers in Tanzania. It offers well-remunerated opportunities for commercial chicken production enterprises. In terms of livestock ownership, chicken is dominant in Tanzania, with 86% of livestock-keeping households in Tanzania owning chickens. The traditional indigenous system supports the largest proportion of the national flock. The supply of indigenous chickens meets more than 70% demand for chicken meat and egg production in rural areas and 20% in urban areas. In addition, women tend to have more discretionary power over income generated from local chicken production than income generated from other types of livestock.
Objectives	<ol style="list-style-type: none"> 1. To improve poultry production of eligible PAPs 2. To increase the income generated from poultry by eligible PAPs, especially women 3. To establish poultry enterprises to improve income generation by PAHs 4. To encourage the diversification of agricultural practices of PAHs
Outcomes	<ol style="list-style-type: none"> 1. Adoption of improved poultry production practices by eligible PAHs 2. Improved resilience of eligible PAPs to drought conditions 3. Increased income generated from poultry by eligible PAPS 4. Increased food security of eligible PAHs 5. Diversified agricultural production by PAHs
Spatial Application	Affected Wards along the pipeline corridor.
Beneficiaries	<p>Groups 1; 2; 3 & 4 PAPs who lose access to productive agricultural lands and vulnerable groups identified as requiring assistance in re-establishing their agricultural production activities.</p> <p>(As this is a program which is not necessarily dependent on access to agricultural land Group 5 & 6 (i.e. agricultural tenants) will be given access to this as an option).</p>
Potential Partners	<ul style="list-style-type: none"> • District Agricultural Officials • Local district-based NGO's
Existing Programs (some not region or district specific)	<ul style="list-style-type: none"> • Adapting Livestock Systems to Climate Change Collaborative Support Research Program. Manual for Teaching Poultry skills to Primary and Secondary School Students • Strengthening food and nutrition security through family poultry and crop integration in Tanzania • Food for Progress Program • Rural Livelihood Development Program • Heifer International • Fighting poverty in their own backyard (Oxfam)
Key Activities	<ol style="list-style-type: none"> 1. Improved access to superior genetic birds 2. Training on better husbandry practices 3. Facilitate access to feed 4. Improved capacity of livestock extension service 5. Facilitate access to improve processing and marketing channels
Monitoring and Evaluation	<ol style="list-style-type: none"> 1. Improved yields 2. Increased income 3. Adoption of improved production practices 4. Improved access to food year-round by PAH

Table 8-14: Livelihood Restoration Activity 5 (LRA5)

LRA 5	Livestock Improved Husbandry Program
Context	Livestock are found across the Kagera Region in varying numbers. Apart from poultry, cattle and goats are the predominant livestock kept by households. Often referred to as “walking capital” livestock are an important source of capital when money is needed to plant fields, buy food or meet unexpected expenses. Opportunities in the livestock market have been identified for the establishment of tanneries to process hides into leather, and bones, horns and hooves into buttons, in addition to milk processing.
Objectives	<ol style="list-style-type: none"> 1. To improve livestock production of eligible PAPs 2. To increase the potential income generated from livestock by eligible PAPs 3. To improve animal husbandry practices amongst PAPs who own livestock
Outcomes	<ol style="list-style-type: none"> 1. Adoption of improved livestock production practices by eligible PAHs 2. Improved resilience of eligible PAPs to shocks 3. Increased food security of eligible PAHs
Spatial Application	Affected Wards along the pipeline corridor.
Beneficiaries	Groups 1; 2; 3 & 4 PAPs who lose access to productive agricultural lands as well as vulnerable groups identified as requiring assistance in re-establishing their agricultural production activities.
Potential Partners	<ul style="list-style-type: none"> • District Agricultural Officials • District and Ward Livestock Officers • Local district-based NGO's
Existing Programs (some not region or district specific)	<ul style="list-style-type: none"> • Adapting Livestock Systems to Climate Change Collaborative Support Research Program. Manual for Teaching Poultry skills to Primary and Secondary School Students • Food for Progress Program • Rural Livelihood Development Program • Heifer International • Fighting poverty in their own backyard (Oxfam) • Tanzania Agricultural Association
Key Activities	<ol style="list-style-type: none"> 1. Improved access to superior genetic breeding stock 2. Training on better husbandry practices 3. Facilitate access to feed 4. Improved capacity of livestock extension service 5. Facilitate access to improve processing and marketing channels
Monitoring and Evaluation	Adoption of improved animal husbandry practices.

Table 8-15: Livelihood Restoration Activity 6 (LRA6)

LRA 6	Improved Beekeeping Practices
Context	The major areas of honey production in Tanzania are Dodoma, Iringa, Kagera and Tabora Region, although evidence of beekeeping can be found throughout the eight (8) Project regions. Honey is generally harvested on a seasonal basis predominately for PAPs own use.
Objectives	<ol style="list-style-type: none"> 1. To improve honey production of eligible PAPs 2. To increase the potential income generated from beekeeping by eligible PAPs 3. To improve beekeeping husbandry practices amongst PAPs
Outcomes	<ol style="list-style-type: none"> 1. Adoption of improved beekeeping production practices by eligible PAHs 2. Improved resilience of eligible PAPs to shocks 3. Increased food security of eligible PAHs
Spatial Application	Affected Wards along the pipeline corridor.
Beneficiaries	Groups 1; 2; 3 & 4 PAPs who lose access to productive agricultural lands as well as vulnerable groups identified as requiring assistance in re-establishing their agricultural production activities. (As this is a program which is not necessarily dependent on access to agricultural land Group 5 & 6 (i.e. agricultural tenants) will be given access to this as an option).
Potential Partners	<ul style="list-style-type: none"> • District Agricultural Officials • Local district-based NGO's • Institute for beekeeping in Tanzania • Tanzanian HoneyBee Project – Eva Crane Trust • USAID: Women's Beekeeping Initiative
Existing Programs (some not region or district specific)	<ul style="list-style-type: none"> • Institute for beekeeping in Tanzania • Tanzanian HoneyBee Project – Eva Crane Trust • USAID: Women's Beekeeping Initiative • Beekeeping Business Development and Expansion: African People and Wildlife • Honey Care Africa
Key Activities	<ol style="list-style-type: none"> 1. Identify interested PAPs 2. Improved access to better hives, 3. Training on better husbandry practices 4. Improved capacity of extension service 5. Facilitate access to improve processing and marketing channels
Monitoring and Evaluation	Adoption of improved beekeeping practices

Table 8-16: Livelihood Restoration Activity 7 (LRA7)

LRA 7	Enterprise Development
Context	The stimulation of enterprise development with the PAHs takes pressure off the demand for land to meet livelihood needs and creates employment opportunities outside of the Project for local communities. The development of enterprises within the construction sector such as masons, bricklayers and welders are an area that could assist in meeting this objective. The creation of value-adding enterprises within the agricultural value-chain has also been shown to exponentially increase the income generated by households. Opportunities for small groups to produce bee and animal products, as well as processed foods from maize, rice and bananas are of particular relevance to the area.
Objectives	<ol style="list-style-type: none"> 1. To increase the capacity of entrepreneurs to function more effectively and expand their businesses 2. To provide time-bound business support to self-employed enterprises, aiming to grow them into viable and sustainable businesses 3. To provide seed capital based on viable business plans to PAPs interested in starting or expanding SMEs
Outcomes	<ol style="list-style-type: none"> 1. Establishment and / or expansion of SMEs amongst PAPs 2. Support to existing PAPs SMEs to access market opportunities and run more efficiently 3. Skills development that promotes the establishment of SMEs
Spatial Application	Affected Wards along the pipeline corridor.
Beneficiaries	Groups 1 2; 3; 4; 5 & 6 PAPs (As this is a program which is not necessarily dependent on access to agricultural land all groups will be given access to this as an option).
Potential Partners	<ul style="list-style-type: none"> • District Officials • Local district-based NGO's & training facilities (eg. Kagera Development Training Association)
Existing Programs (some not region or district specific)	<ol style="list-style-type: none"> 1. Tanzanian Local Enterprise Development 2. Centre for Entrepreneurship Development 3. Tanzania's Small Industries Development Organization 4. Kagera Development Training Association
Key Activities	<ol style="list-style-type: none"> 1. Identify interested PAPs 2. Training on Entrepreneurship and Business Management 3. Development of a District-based SME Fund and dispersal mechanism 4. Support to participating / potential SME's to develop viable Business Plans 5. Mentoring to SME's support by the District-based SME Fund
Monitoring and Evaluation	<ol style="list-style-type: none"> 1. Dispersal of funds from the District-based SME Fund 2. Sustainability of SME's established and / or supported

Table 8-17: Livelihood Restoration Activity 8 (LRA8)

LRA 8	Household Budgeting and Money Management Training
Context	PAPs are not accustomed to receiving relatively large amounts of cash and may spend / invest it unwisely. An identified potential Project risk is that of PAPs taking out loans against anticipated compensation payments.. In addition, literacy and numeracy levels are low in rural Tanzania, and particularly low for women. There is also a pervasive concern that women will be disadvantaged because they do not have control over compensation money. Financial training must involve sensitization in this context. Fair distribution of compensation money must be addressed in compensation agreements and in the compensation process (see Chapter 4)
Objectives	<ol style="list-style-type: none"> 1. To assist PAPs (men and women) to use their cash compensation sensibly to restore their livelihoods and build a sustainable future 2. To increase employment and knowledge opportunities through improved numeracy skills
Outcomes	<ol style="list-style-type: none"> 1. Interested PAPs and those receiving cash compensation payments open Bank accounts 2. All PAPs and their spouses receive money management training and advice on different options for investment
Spatial Application	Affected Wards along the pipeline corridor.
Beneficiaries	Groups 1, 2; 3; 4; 5 & 6 PAPs.
Potential Partners	<ul style="list-style-type: none"> • Local Banks • Local district-based NGO's (eg. Kagera Center for Poverty Alleviation) • Teachers at primary and secondary schools.
Existing Programs (some not region or district specific)	<ul style="list-style-type: none"> • Tanzania literacy program: UNESCO • Integrated Community-Based Adult Education (ICBAE) • FinMark Trust. • Kagera Center for Poverty Alleviation
Key Activities	<p>A series of financial management training sessions will be provided to all households receiving cash compensation and all households participating in any LRA. The training will be designed to assist households in using their compensation payments appropriately by providing each household with the necessary tools and skills to manage their cash. The training will encourage participants to share their experiences, both positive and negative, relating to household cash management and seek solutions where households may have had problems.</p> <p>Financial training sessions will include basic numeracy skills; money management and basic household budgeting; savings and strategic cash management; basic literacy; and advisory services.</p> <p>Financial management training will commence as soon as possible following payment of cash compensation as part of the Project's early support. Follow up training may also be provided to boost household cash management skills and to reduce the risk of misuse. The Project will seek to involve local banks or other similar micro-finance service providers to provide this training.</p>
Monitoring and Evaluation	Adoption of good money management practices.

8.9 Overview of Possible Partners for Implementation

Where possible and practical, the Project will manage the livelihood restoration programs with the assistance of implementing partners (NGOs, service providers, farming groups) and relevant government departments, village councils and ward councils.

8.9.1 NGOs and CBOs

Information on active NGOs and CBOs has been gathered and updated incrementally through fieldwork and formal engagement with groups of NGOs / CBOs. The list of potential partner NGOs and CBOs will be supplemented as other organizations are identified and engaged.

Organizations / groups / interventions listed in this section could potentially be brought into a partnership to assist with livelihood restoration programs for this Project. Partnering will eliminate the duplication of efforts and will strengthen current interventions. The fit of these organizations / groups / initiatives with the Project's aim to address project-induced livelihood impacts will have to be assessed in consultation with the affected districts, wards, and villages.

Table 8-18: Potential Organizations for Livelihood Restoration Partnerships

Organization / Group	Description of Key Activities
Oikos East Africa (OEA)	A Tanzanian NGO based in Arusha that promotes the protection of biodiversity and the sustainable use of natural resources to fight against poverty and boost socio-economic development.
Fundación Capital	Works together with the public and private sectors to provide innovative solutions for vulnerable groups, through access to services, information, and knowledge, strengthened assets and livelihoods, improved capabilities and enhanced resilience.
Stichting Nederlandse Vrijwilligers (Foundation of Netherlands Volunteers - SNV)	Expertise in Agriculture, Energy and Water, Sanitation and Hygiene and work with local partners to equip communities, businesses and organizations with the tools, knowledge and connections they need to increase their incomes and gain access to basic services.
Volunteer Services Overseas	Places people on development projects in Tanzania.
Africare	Invests in community projects in a range of programs from Food Security to HIV & AIDS, Value Chain Development and Youth Empowerment.
Red Cross	Advocacy, sensitization and mobilization for Most Vulnerable Children / Orphan Vulnerable Children (MVC/OVC) and people living with HIV
WaterAid	Started in 1981 to make clean water, reliable toilets and good hygiene accessible to everyone.
Technoserve	Works towards building competitive farms, businesses and industries by linking people to information, capital and markets.
Society of Chemical Industry (SCI)	A pan African company in technology consulting and solutions. Formerly known as NCR Tanzania, SCI operates in the financial sector and introduced Tanzania's first Automated Teller Machine (ATM).
Water Mission International	Works to provide engineering solutions to deliver clean water to destitute communities.
BRAC	Serves the needs of women, young people, and smallholder farmers through group-based microloans and enterprise loans.
Heifer International	Works with communities to increase income and improve child

Organization / Group	Description of Key Activities
	nutrition, through improved and better management of livestock.
Helvetas KUWAKI	Focuses on empowering women through agriculture, with an emphasis on horticulture.
SEMA	NGO focused on facilitating access to information on development and social services.
RECODA	Tanzanian NGO seeking to bridge technology gaps in community development.

Other international organizations identified that are active in Tanzania and could play a role in livelihood restoration activities are presented in Table 8-19..

Table 8-19: A Selection of International NGOs Active in Tanzania

International NGO	Strategic Objective / Development Focus	Description of aspects of the program that could be beneficial / applicable to livelihoods restoration
ActionAid International	To work with poor and marginalized communities to strengthen their capacity to advocate for international and national policies that promote their rights to a world without poverty.	Areas of work are: agricultural and food security, land rights, governance-public and corporate accountability, education, women's rights.
Aga Khan Development Network (AKDN)	To design and implement strategies in which its different agencies participate in settings to help those in need achieve a level of self-reliance and improve their quality of life. Successful development occurs when a continuum of development activities offers people in a given area not only a rise in incomes, but a broad, sustained improvement in their overall quality of life.	Contributes to poverty alleviation, education, health care, economic development and cultural restoration in Tanzania. The Aga Khan Fund for Economic Development operates project companies including agro-processing.
CAMFED	To provide holistic and targeted support for girls to go to secondary school, covering needs that include school fees, uniforms, books, pens, boarding fees and disability aids. "Educating girls is the best investment we can make to alleviate poverty and create a safer world".	Teacher Mentors are joined by Learner Guides - young women who return to local schools to support vulnerable children with life skills, study skills and literacy training. Learner Guides understand the barriers imposed by poverty, having lived it. As peer role models and mentors, they are transforming prospects for young people.
CARE International	To save lives, defeat poverty and achieve social justice. Women and girls are put in the center because the view is that poverty can be overcome only when all people have equal rights and opportunities.	Five (5) program outcome areas are: <ul style="list-style-type: none"> • Food and nutrition security and climate change resilience; • Humanitarian response; • Right to a life free from violence; • Sexual, reproductive and maternal health and rights; and • Women's economic empowerment.

International NGO	Strategic Objective / Development Focus	Description of aspects of the program that could be beneficial / applicable to livelihoods restoration
Food and Agriculture Organization	It works closely with the GoT by providing policy advice, credible, up-to-date information and technical expertise on food security and natural resource management.	It provides support in four (4) main areas: <ul style="list-style-type: none"> Evidence-based agriculture policy, planning, investment and sector coordination; Increasing agricultural production, productivity for food security and nutrition; Improving market access for increased incomes; and Strengthening resilience to natural and man-made threats and crises such as climate change impacts; and unsustainable management of natural resources.
Skillshare International	To reduce poverty, injustice and inequality and to further economic and social development in partnership with people and communities.	Priority sectors are health, education, environment and economic empowerment.
Swedish International Development Cooperation (SIDA)	To reduce poverty in the world by enabling people living in poverty to improve their lives. For Tanzania, a prioritized goal is to reduce Tanzania's dependency on Aid, the main target groups being women, children, young people, and entrepreneurs.	Focus areas are: <ul style="list-style-type: none"> More jobs and development of energy and agricultural markets; Improved education and increased entrepreneurship; and Strengthened democratic accountability and transparency, and increased awareness of human rights.
SwissAid - Socio-Economic Development Initiatives (SEDIT), Grain Postharvest Loss Prevention (GPLP) Program	GPLP focuses on grains post-harvest losses prevention, particularly through introduction improved storage technologies and facilities i.e. metal silos and super grain bags. VICOBA serves the farmers in terms of capital, training platform and providing buffer funds to sustain farmers during storage.	Programs related to a land-based livelihoods plans concentrating on grain storage and the reduction of post-harvest loss. A key focus of SwissAid.
Water Aid	Provision of expert training and support to local authorities for the provision of clean water, improved pit latrines and hygiene practices.	Improved local health as a basis for sustainable livelihoods restoration.
Young Women's Christian Organization	Committed to the empowerment of women to realize their potential and contribute to the achievement of peace, dignity and good health for all.	Currently seven (7) donor funded programs are active.

8.9.2 Process to Appoint Service Providers

The process to appoint service providers to assist with the development and implementation of programs is outlined below:

- Determine and shortlist suitable implementing partners, and post-training support agents;
- Undertake key respondent interviews and mini-focus group discussions with possible implementing partners to determine fit with the Project's principles and needs;

- Conduct key respondent interviews to identify possible opportunities to build on existing programs and skills in the Project area;
- Shortlist potential implementing partners;
- Invite shortlisted implementing partners to submit proposal with unit costs for participation and timeframes;
- Present proposals for discussion and comment to relevant parties such as Village Authorities, Agricultural and Social Officers, the LARWG. Key Government stakeholders, the LARWG, NGOs, CBOs, PAPs, and PAHs;
- Select implementing partners;
- Contract the implementing partners inclusive of a clear outline of roles and responsibilities, timeframes and payment structures;
- Liaison with regional and district technical staff to assist with co-ordination and integration with existing livelihood support initiatives of livelihood development initiatives, where applicable;
- Develop a detailed execution plan;
- Develop monitoring plans including Key Performance Areas (KPAs) and Key Performance Indicators (KPIs);
- Commence with livelihoods restoration; and
- Commence with monitoring.

8.10 Transitional Support Plan

8.10.1 Transitional Support to Physically and Economically Displaced PAPs

Transitional support is provided to complement compensation payments to ensure that households can meet their basic needs and maintain their standard of living once access to their land has been lost and until they have had opportunity to restore their livelihood to pre-project levels. These early support components incorporate:

- Transitional support in the form of food baskets and other provisions²⁰⁸ to ensure households are food secure during the transitional period; and
- Financial management training for all households receiving cash compensation to provide households with the tools and skills to manage the cash they received.

Transitional support entitlements are outlined in Table 8-20. To benefit from transitional support, households will be required to register with (and participate in) the Project's livelihood restoration program. The components of transitional support include a "basket of goods" and medical and education / school support as required while eligible.

²⁰⁸ This may also include additional cash elements.

Table 8-20: Transitional Support Entitlements

Household Category : LR Group	Period of Support	Rationale and Recommendations
Highly Impacted Households: LR Group 1 LR Group 3	Up to 12 months or end of first harvest, post displacement then re-assessed – may extend or be provided at reduced quantities up to end of second harvest if required. (Support will be structured to discourage food dependency).	It is expected that these households will take longer to restore their livelihoods and will therefore need a longer duration of transitional support. An assessment will be undertaken six (6) monthly / at the end of first harvest to determine whether support must continue, stop or be reduced. One transitional support package per household – where more than one PAP is present in a household only one package of support generally for this household will be applicable.
Partially Impacted Households: LR Group 2 LR Group 4 (LR Group 5 (Tenants) will be assessed for eligibility, if determined to be vulnerable may be given access to transitional support.)	Up to six (6) months and/or to end of first harvest, post displacement. (Support will be structured to discourage food dependency).	These households only lose part of their livelihoods and those that loose land have not been assessed as vulnerable. It is therefore expected that their livelihoods will be restored as a result of the LRP. Support will be provided until it can be demonstrated that livelihoods have been restored effectively or that households have been provided with necessary support to restore their livelihoods. For Group 2 PAPs who are vulnerable an assessment will be undertaken at six (6) months and / or at end of first post displacement harvest. One transitional support package per household – where more than one PAP is present in a household only one package of support generally for this household will be applicable.

Transitional support will consist primarily of a “basket of goods”. The basket of goods is based on a typical United Nations World Food Program food basket providing cereal, rice, pulses, oil, and salt. Since all households still have some livelihood capacity, assistance will commence with 50% of the quantities issued under the World Food Programme (WFP) (approximately 5kg each of maize, rice, pulses; 0,5l oil and 150g salt per person per month). This percentage will be reduced for partially impacted households accordingly. Items provided to each household, six (6) members, per month could include:

- maize (20kg);
- beans (20kg)
- rice (20kg)
- salt (1kg); and
- oil (5l).

This will be adapted to provide staples consumed in the region, in consultation with the Community Development Officers and WEOs. Vulnerable and highly impacted households will be monitored closely to ascertain whether the support provided is adequate and to consider any adjustments to the basket of goods. Those eligible for transitional support may also be eligible for specific medical support while on the program. This may include payment of costs associated with Community Health Funds. (The annual contribution from each household is between T.Shs. 5,000 – T.Shs. 15,000, as defined by the respective districts.) Fees will only be paid directly to the authority upon provision of evidence such as a bill.

Costs associated with changing schools (books, uniforms, etc.) will also be covered by the program. The TASAF program allocates an amount of T.Shs 2,000 / child / month attending school. Children must have a 75% attendance record at school for the grant to continue.

8.10.2 Temporary Accommodation

The Project intends to construct replacement houses where entitlements require, in a timeframe that will allow physically displaced PAHs to move directly into this housing. However, there may be instances where temporary accommodation is required, such as where a PAH elects to have a replacement house constructed on their existing homestead and for safety reasons it is not considered appropriate for these households to remain living on the homestead during construction. In such instances the Project will work closely with PAHs and relevant authorities to support the PAPs during this transition period.

8.10.3 Monitoring and Evaluation

Households will be assessed to determine whether they are eligible to remain on the program. An assessment will be undertaken at six (6) months, 12 months, and 18 months and, if required, 24 months to determine which households may still need transitional support. There will be flexibility to continue transitional support for as long as is necessary until households have had enough opportunity to restore livelihoods. Additional support options will be considered for those struggling beyond 24 months. Households will no longer be eligible for transitional support if:

- Households have replaced the cash income they have lost as a result of the Project or are able to harvest to the level they could prior to the Project; or
- A member of the household has achieved gainful employment, or the household is benefiting from another income source. A household's ability to replace their cash income and standard of living will be monitored using existing baseline data on household income levels for each household category; or
- They do not demonstrate willingness to undertake activities to restore their livelihoods. Each household benefiting from transitional support will be required to demonstrate that they are taking steps, either through the Livelihood restoration plan or another means, to restore their livelihood.

9 VULNERABLE PEOPLES PLAN

9.1 Introduction

As per IFC Performance Standard 1, a disadvantaged or vulnerable status can stem from an individual's or group's race, color, sex, language, religion, political or other opinions, national or social origin, property, birth, or other status. Additional factors to be considered include gender, age, ethnicity, culture, literacy, sickness, physical or mental disability, poverty or economic disadvantage, and dependence on unique natural resources.

In the context of this RAP, vulnerable people are seen to be more susceptible to the rigors and stresses of the resettlement process, have reduced ability to access and benefit from resettlement support programs and hence, will require additional assistance and monitoring throughout the process.

This chapter describes the Project's approach to Vulnerable People impacted by the Project and focuses on:

- Objectives of the Vulnerable Peoples Plan (VPP);
- Definition of Vulnerable People (VP);
- Vulnerability Criteria; and
- Confirming Vulnerability Status.

The VPP addresses how the Project intends to confirm the vulnerability of potentially vulnerable PAPs, as identified during the survey process, and address the vulnerabilities noted. This includes ensuring that such PAPs are properly informed of Project activities and suitably assisted to address any additional vulnerabilities resulting from these activities.

9.2 Objectives of the Vulnerable Peoples Plan

The objectives of the VPP are to:

- 1) Identify or Confirm Vulnerable People:** Ensure that actual and potentially vulnerable people and households are identified and monitored during and after the resettlement process, so as to track their standard of living and effectiveness of resettlement compensation, assistance, and livelihood restoration;
- 2) Provide Appropriate Assistance:** Provide appropriate assistance to people and households identified as vulnerable to re-establish their livelihoods (including those physically resettled). Members of vulnerable households may require special or supplementary resettlement assistance, such as legal, financial and practical assistance, because they are less able to cope with the displacement effects than the general population. This will be determined on a case by case basis;

- 3) **Identify Support Packages:** Identify compensation and livelihood restoration packages for vulnerable people that include additional forms of support, and favor the lowest risk mitigation options whenever possible;
- 4) **Assist with Understanding Support:** Assist persons identified as vulnerable to fully understand their support options for resettlement and compensation, and encourage them to choose the option(s) with the lowest risk;
- 5) **Consider Social Networks:** Carefully consider social networks and how these can be re-created at resettlement locations, especially regarding support to vulnerable people; and
- 6) **Identify Additional Support Measures:** In line with the additional protections afforded to certain groups under international human rights law, additional measures will be identified for vulnerable groups to cope with Project-induced impacts during physical relocation, particularly paying attention to women, children, the elderly, Vulnerable Ethnic Groups who may self-identify as indigenous people, and persons with disabilities.

9.3 Definition of Vulnerable People

Within the context of resettlement and land acquisition the term “vulnerable groups” is given to individuals, households, or groups of people that may be disproportionately affected by the resettlement process.

For the purposes of this RAP, vulnerability is defined as:

- Lack of capacity of a person or group to anticipate, cope with, resist and recover from impacts;
- People who by virtue of gender, ethnicity, age, physical or mental disability, economic disadvantage, or social status may be more adversely affected by resettlement than others;
- Reduced ability to cope with the change and, if not provided with additional assistance, may be disproportionately affected by displacement;
- Limited ability to claim or take advantage of resettlement assistance and related development benefits; and
- Vulnerable Ethnic Groups who have been marginalized, excluded, discriminated against and / or dispossessed of traditional lands and territories, because they have different cultures, ways of life or mode of production than the rest of the population.

9.4 Vulnerability Criteria

In line with this definition, the Project-specific criteria²⁰⁹ have been developed to support the identification of potentially vulnerable individuals and households among those that are being physically and economically displaced by the Project.

Acknowledging that no single criteria automatically renders a household vulnerable, a number of reports were reviewed, including the Comprehensive Food Security and Vulnerability Analysis Reports²¹⁰, in order to identify the main contributing factors impeding the resilience of households to withstand external shocks, hence making them potentially vulnerable due to impacts of the land acquisition associated with the Project. These contributing factors are²¹¹:

- Age of household head (either over 60 years of age or child-headed households);
- The household is female headed;
- Education level of household head;
- The household has one or more physically and / or mentally disabled household member²¹².
- Percentage of household expenditure on food;
- Number of household dependents and resources available to support those dependents; and
- Number of children between 6-14 years not attending school.

To identify likely vulnerable individuals and households directly affected by the required land acquisition and resettlement, the criteria were applied to data gathered in the socio-economic baseline, census, asset, land surveys and socio-economic and livelihood investigations and through semi-structured interviews.

²⁰⁹ These criteria have been developed in accordance with the GoT's Vulnerable Groups Planning Framework and the requirements of IFC Performance Standard 5: Land Acquisition and Involuntary Resettlement and IFC Performance Standard 7: Indigenous Peoples.

²¹⁰ United Nations World Food Programme, "Comprehensive Food Security & Vulnerability Analysis (CFSVA), Tanzania, 2010" and United Nations World Food Programme, "Comprehensive Food Security & Vulnerability Analysis" (CFSVA), Tanzania, 2012.

²¹¹ Potentially vulnerable ethnic groups have not been explicitly included in the vulnerability criteria. However, they will be identified and engaged in a specific manner as described in Section 9.7.4.

²¹² Disability is the loss or limitation of opportunities to take part in the normal life of the community on an equal level with others due to physical, mental or social factors. It is an umbrella term, covering impairments, activity limitation, and participation restrictions. National Disability Policy of 2004.

9.5 Categorization of Vulnerability

The vulnerability analysis recognizes that vulnerability is not an absolute but rather a graded scale between destitute and varying degrees of “at risk”. To incorporate this variability, three (3) categories of vulnerability have been adopted which recognize varying degrees of vulnerability:

- **Category 1** (Vulnerable) households will immediately be placed on the Vulnerable Household Register (VHR) and qualify for in-kind assistance and individual level livelihood support as discussed in Section 9.8. In addition, additional support may be necessary, commensurate to the households’ level of vulnerability.
- **Category 2** (Potentially Vulnerable) households will qualify for in-kind assistance and livelihood support but will need further verification before being placed on the VHR.
- **Category 3** (At risk) households will be placed on a “watch list” and must be included in any review / survey to monitor the PAPs, they will not be classified as vulnerable in terms of in-kind assistance but will qualify for livelihood support.

Using the vulnerability criteria discussed in Section 9.4, several data queries were run through the pre-validated project database (which includes socio-economic data collected during the pipeline survey), to identify those households which were potentially vulnerable, and their level of vulnerability. The final query assessed whether any of the households identified as potentially vulnerable appeared in multiple queries i.e. a cumulative impact, as this would have the effect of increasing their overall level of vulnerability. Table 9-1 shows the queries that were used to interrogate the database, to identify and categorize potentially vulnerable people.

Table 9-1: Database Analysis Used to Identify Potentially Vulnerable People

Query	Classification into Categories
Query A:	<i>Category 1:</i> Elderly (>60yrs) male headed household with 1 or no income earners. <i>Category 2:</i> Elderly (>60yrs) male headed household with 2 income earners. <i>Category 3:</i> Male (≤60yrs) with 1 or no income earners.
Query B:	<i>Category 1:</i> Household food expenditure ≥ 80%. <i>Category 2:</i> Household food expenditure < 80% and ≥ 70%. <i>Category 3:</i> Household food expenditure < 70% and ≥ 60%.
Query C:	<i>Category 1:</i> Child headed households, household head < 18yrs
Query D:	<i>Category 1:</i> Female headed (≤ 60yrs) household – household head has no education. <i>Category 2:</i> Male headed (≤ 60yrs) household – household head has no education. <i>Category 3:</i> Household head (> 60yrs) has no education.
Query E:	<i>Category 1:</i> Percentage of children in household (≥ 6 and ≤14yrs) not attending school ≥ 75%. <i>Category 2:</i> Percentage of children in household (≥ 6 and ≤ 14yrs) not attending school ≥ 50% to < 75%. <i>Category 3:</i> Percentage of children in household (≥ 6 and ≤ 14yrs) not attending school ≥ 25% to < 50%.
Query F:	<i>Category 1:</i> Household head is Female and two or more disabled people under 60 in the household. <i>Category 2:</i> Household head is Male and two or more disabled people under 60 in the

Query	Classification into Categories
	household. <i>Category 3:</i> Household head is Female or Male and one disabled person under 60 in the household.
Query G	<i>Cumulative Analysis of households who were categorized in more than 1 query above.</i> <i>Category 1:</i> Household has 1 or more classifications in category 1. <i>Category 1:</i> Household has 3 or more classifications in category 2. <i>Category 2:</i> Household has 1 or more classifications in both categories 2 and 3. <i>Category 2:</i> Household has 3 or more classifications in category 3. <i>Category 3:</i> Household has 1 or 2 classifications in category 3.

Households are assigned a vulnerability category, as described in Section 9.6, based on their classifications in Queries A to G.

A household will be categorized as vulnerable if after an accumulative analysis (Query G) of the factors contributing to vulnerability identify them as potentially vulnerable.

9.6 Confirming Vulnerability Status

Based on the information collected, a Register of Vulnerable Individuals and Households has been developed. This VHR will be used throughout the resettlement process to plan and implement the specific activities that have been designed to support potentially vulnerable groups, as summarized in the VPP.

The number of households in each category was then calculated based on the queries described above. Table 9-2 provides the numbers of vulnerable households, per category, identified in the Kagera Region based on the socio-economic baseline survey.

Table 9-2: Vulnerable Households by Category in the Kagera Region

Ward	Village	Category 1	Category 2	Category 3
Missenyi				
Mutukula	Mutukula	4	10	18
Nsunga	Byamutemba	1	5	3
	Igayaza	5	7	2
Kassambya	Kassambya	5	9	5
	Mabuye	12	13	12
	Nyabhanga	14	10	14
Kyaka	Bulifani	8	16	11
Kilimilile	Kilimilile	10	17	15
Bukoba				
Kyamulaile	Kyamulaile	3	6	6
Mugajwale	Kobunshwi	12	26	19
	Mugajwale	17	21	32
Kyaitoke	Kyaitoke	16	22	24

Ward	Village	Category 1	Category 2	Category 3
	Rugaze	-	-	-
Izimbya	Izimbya	-	-	-
Kibirizi	Kamuli	9	11	12
Rukoma	Nsheshe	2	4	4
Muleba				
Ngenge	Rwigembe	11	18	16
	Nyakanyasi	19	29	12
	Ngenge	8	28	31
	Kishuro	10	22	18
	Rukindo	11	19	13
Burungura	Kakoma	27	49	17
Mubunda	Kikagate	8	13	8
	Kikagate (PS-3)	0	7	5
Bisheke	Milanda	6	13	6
Kasharunga	Kiteme	29	30	45
Karambi	Kiguzi	23	24	11
	Karambi	3	16	9
	Kanyamika	23	20	8
Kyebitembe	Kasindaga	-	5	4
Biharamulo				
Nyamigogo	Nyamigogo	3	1	2
	Kasozibakaya	6	5	7

This categorization is considered in the eligibility criteria for both compensation options and livelihood restoration as is appropriate and commensurate to their loss of physical and economic assets. This approach is a precautionary approach and provides a further safety net for PAHs. It is expected that the Project will also benefit from lessons learned from the process followed in the PAs.

This categorization then triggers additional efforts to be made with regard to these PAHs during the next stages of RAP implementation. During the entitlement briefing process (see Chapter 10) and through additional engagements with these PAHs more information on their specific circumstances will be gathered. This will be considered alongside their specific displacement impacts to confirm whether they require additional resettlement support and discuss with them (if relevant) support options are available.

This process will also be used to help structure PAHs' final entitlements and compensation options. The livelihood strategies of these PAHs will be investigated in more detail during RAP implementation to ensure access to and delivery of livelihood restoration programs that are structured appropriately.

The exact set of activities that will be provided to each confirmed vulnerable individual and household will be assessed on a case by case basis and will therefore vary according to their specific needs.

It may be confirmed during further engagement with these PAHs that these vulnerability factors (or criteria) from Section 9.4 above on which their vulnerability has been based may not affect their resilience to restore livelihoods, and the impacts experienced by them as a result of the Project's land acquisition will not necessarily be disproportionate.

9.7 Specific Vulnerabilities

9.7.1 Vulnerability Assessment of Women

The Tanzanian legal framework establishes land rights for women in the following pieces of legislation:

- Village Land Act of 1999: "The right of every woman to acquire, hold, use and deal with land shall to the same extent and subject to the same restrictions be treated as a right of any man" (Part II 3(2)); and
- Law of Marriage Act of 1971 as amended by Act 23 / 73, Act 15 / 80 and Act 9 / 96: "...married women have the right to acquire, hold and dispose of property, movable or immovable, during the course of the marriage, and the right to distribution of property earned jointly when the relationship is dissolved. Property and other matrimonial assets that a woman has acquired individually belong to her. When there are two or more wives, they have equal rights and liabilities as spouses".

Given these legal provisions it is therefore expected that at least in most cases, it will be possible to ensure land rights exist for female-headed households, thus, at least ensuring their basic entitlements as PAHs to compensation and other entitlements.

However, it is recognized that women's access to resources and opportunities is often limited by discrimination and cultural norms whereby they commonly experience greater financial, work and time burdens from unpaid responsibilities such as those related to childcare, or household duties such as preparing food, fetching water and firewood etc. In addition, women who are tied to their domestic duties are frequently less able to leave their house or land to find alternative livelihoods.

Where a woman is also the household head, her responsibilities increase further and, given traditional village and cultural structures, she and her family may be marginalized or excluded from village decision making as well as from engagement structures with which the Project and other organizations interact. Instead, women are more likely to rely on informal networks of support, such as neighbors or relatives that may be disrupted by the resettlement process.

Women in general, while not identified as a vulnerable group, are the focus of specific, targeted engagement measures, and some specific mitigations, to ensure they receive equitable benefits that may be necessary from the resettlement program. This is the basis for the inclusion of female-headed households as one of the criteria.

There are a total of 417 female headed households that will be impacted by Project activities, however; a female headed household does not automatically indicate vulnerability. Female headed PAH will be considered on a case by case basis to determine whether this factor affects their ability to cope with the displacement impacts on them and their ability to restore livelihoods.

In addition, the Comprehensive Food Security and Vulnerability Analysis²¹³ shows that female-headed households who have one or more additional vulnerabilities, are more likely to be food insecure and vulnerable. Particular attention will, therefore, be given to female-headed households that will lose more than an acre equivalent (AE)²¹⁴ of agricultural land and are identified as vulnerable (refer to Table 9-3). They will need to be monitored closely to ensure they have access to sufficient food. Additional assistance may also be required for them to re-establish livelihood activities.

Table 9-3: Female Headed PAHs Identified across the Kagera Region

District	Missenyi	Bukoba	Muleba	Biharamulo
Female headed household (≤60 years).	65	60	106	5
Female headed household (>60 years)	25	28	53	0
Female-headed household, and one or more disabled household members.	8	18	15	1
Female-headed household, losing >AE of agricultural land.	20	7	6	0
TOTAL	118	113	180	5

9.7.2 Vulnerability Assessment of Elderly Households

Elderly households may become vulnerable for a number of reasons:

- Poverty, or lack of cash income to support their day to day subsistence requirements;
- Physical or mental impairments may make it difficult for them to care for themselves;
- Sickness may make it difficult for elderly households to tend to their fields that provide either cash crops or subsistence food;
- The elderly may be less socially integrated and need to rely heavily on the day to day support of children, relatives or neighbors; and
- Lack of access to transportation may be an issue, for example to enable access to alternative livelihood sites or village services (shops, banks, government agencies, etc.), especially if household members are unable to walk long distances; and
- Household decisions may be made on their behalf by relatives and children without their consent; including relocating the elders to the children's homes, having power

²¹³ United Republic of Tanzania 2009 / 10 Comprehensive Food Security and Vulnerability Analysis (CFSVA).

²¹⁴ An Acre Equivalent (AE) which takes into account the productivity of the land in the district and the average number of household members for households in the district

of attorney on the financials of the elderly PAP and possibly mismanaging the compensation they receive.

Any of these factors may make it difficult for an elderly individual or household to adapt to significant change to their asset base and the structure of their livelihood / s.

For the purposes of identification of vulnerability in this RAP, an elderly household has been defined as one where the household head is older than 60.

Households with an elderly head (especially if female) are at higher risk and will be considered on a case by case basis to determine whether this affects the PAP's ability to cope with the displacement impacts on them and their resilience to restore livelihoods. Table 9-4 shows the elderly head of household for the three vulnerability categories across the Kagera Region.

Table 9-4: Elderly Headed PAH's Identified across the Kagera Region

District	Missenyi	Bukoba	Muleba	Biharamulo
Household head 60 years or older	78	110	191	2
Household head 60 years or older, and disabled household member	6	17	17	0
Household head 60 years or older, and farming is main livelihood, and remaining land after land loss is ≤ 2.5 acres	27	42	76	0
Household head 60 years or older, and disabled household member, and farming is main livelihood, and remaining land after land loss is ≤ 2.5 acres	6	5	7	0
TOTAL	117	174	291	2

9.7.3 Households Inclusive of Disabled Family Members

Chronic, frequent illness or disabilities among household members threatens livelihood security, reduces income and mobility, and increases the required expenditure on health. Households with persons with disabilities or chronic illnesses are likely to be more vulnerable than households that do not have these characteristics.

During the socio-economic survey, a significant number of households with one or more disabled household members were identified. Impaired lack of physical mobility accounts for more than half of all reported instances of disability. However, it is possible that the concept of impaired physical mobility may have been misunderstood (e.g. a child younger than normal walking age) or its incidence over-reported, and this will need to be verified as part of implementation (refer to Section 9.10) on a case by case basis as households are offered participation in appropriate livelihoods restoration or social programs.

For the purposes of resettlement activities, a household has been defined as vulnerable if one or more members under the age of 60 suffer from a disability or chronic illness. However, as mentioned each PAP's individual circumstances will be considered during implementation to ensure appropriate categorization has been allocated.

9.7.4 Potentially Vulnerable Ethnic Groups

Membership of a vulnerable ethnic group or self-identification as an indigenous person was not included in the vulnerability criteria employed in Section 9.4. This exclusion is motivated by the fact that, based on available evidence, indigenous status does not automatically translate into household vulnerability, despite the group's potential for vulnerability. Conversely, vulnerability is not the sole criteria for recognizing a group as indigenous. As discussed in Chapter 5, many vulnerable ethnic groups in Tanzania have abandoned their traditional ways of life and have to a large extent been assimilated into mainstream culture. This conclusion is supported by the fact that in Missenyi, the Barabaig used to be hunters and gatherers but have since diversified their livelihoods and are now agro-pastoralists. Within the Kagera Region, only one PAH in Mutukula Village self identifies as belonging to the Barabaig

Data from the socio-economic surveys indicate there is one PAH, located in Mutukula Village, out of 1,901 PAHs in the Kagera Region who belong to vulnerable ethnic groups some of whom may self-identify as being indigenous people. As discussed in Chapter 5, these differ from other PAHs in a number of important respects, despite the cultural assimilation mentioned above. The one PAH in Mutukula does not display any distinct differences from other PAHs, particularly when considering the literacy rate among household members from vulnerable ethnic groups over 15 and school attendance among children between six (6) and 14.

The one vulnerable ethnic group PAH, as per the categories defined in Section 9.5, falls into Category 3 (At Risk). In addition to the potential differences in the socio-economic and demographic indicators between vulnerable ethnic group PAHs and other households, a number of contextual factors may render these groups more vulnerable than other communities to the impacts associated with Project-related land acquisition and displacement²¹⁵:

- The government of Tanzania has stated that all people of African descent are indigenous and therefore recognition of the rights of indigenous peoples is not relevant;
- Displacement of large numbers of pastoralists have been a frequent occurrence in many parts of Tanzania in the past;
- Climate change adds a range of challenges to the situation of pastoralists and hunter-gatherers. Their strategy of flexible tracking of resources is well-adapted to short-term climate variability, but such adaptive strategies of pastoralists may be blocked by restrictions on mobility imposed by competing land uses;
- Although official education statistics are not disaggregated by ethnicity, there is evidence that school attendance among vulnerable ethnic groups is lower and the

²¹⁵ African Commission on Human and Peoples' Rights (2014). Report of the African Commission's Working Group on Indigenous Populations / Communities: Research and Information Visit to the Republic of Tanzania, 21st January – 6th February 2013. URL: https://www.iwgia.org/images/publications/0719_TANZANIA-ENGELSK.pdf

drop-out rates higher than among other Tanzanians. The reasons for non-attendance and dropping include distances to schools, the proximity of wildlife (which poses a safety risk for children walking to school), collusion between education officials and parents to keep children out of school, and a curriculum that is at variance with the interests of such groups ; and

- Lack of access to productive resources and services have also been detrimental to pastoralism as a livelihood system since it has resulted in poor conditions of living, low incomes, poor health and low literacy.

While the potential vulnerability of PAH from vulnerable ethnic groups is an important consideration in determining the type of additional targeted support measures that may be required, it is recognized that additional support measures and engagement are required to respect the rights of all PAH from vulnerable ethnic groups to ensure that they are able to effectively restore their livelihoods to pre-displacement levels. Additional support measures for vulnerable ethnic groups will be agreed upon with the specific groups prior to any displacement or impact. Such additional support measures are described in more detail in Section 9.10.

9.8 Livelihood Restoration Strategies for Vulnerable Households

The majority of households within the Kagera Region rely on their land for both household subsistence and cash income (see Chapter 5). Household support which is derived from a single source is more vulnerable to shock, including those that may be as a result of participation in a resettlement process.

Additional assistance will be provided to PAPs that are identified as vulnerable and lose >AE but <AFS. As per the Livelihood Restoration Plan (Chapter 8), these vulnerable households will have access to individual level livelihood restoration program(s) as appropriate to their relevant vulnerability factors. Assistance will include access to programs that will be designed to address individual circumstances such as:

- Crop improvement programs;
- Livestock improvement programs, especially poultry which can be farmed intensively in a smaller area and produce greater returns; and
- Non-land-based programs, such as enterprise and skill development.

(See Chapter 8 for more details).



Figure 9-1: Livelihood Strategies for Vulnerable People will Include Crop Improvement Programs

One reason vulnerability can arise is through the failure of crop production for a season (or two) post-displacement (due to climatic and other natural shocks). In addition, sometimes it may be that alternative land identified for agricultural activities / livestock does not have the carrying capacity of the land that was lost and / or PAPs need additional support to practice alternative farming practices to utilize alternative land better. The same applies to a lack of access to alternative areas to source firewood, building materials (thatch) and medicinal plants. The RAP has identified the following measures to prevent PAPs from emerging as vulnerable due to impacts on livelihoods post-displacement:

- Support and capacity building in improved methods of land, preparation, and crop and livestock production;
- Training to help PAPs manage their finances / cash received during compensation; and
- Assistance to vulnerable PAHs where they are unable to re-establish their croplands due to limited access to labor.

The Project will also undertake ongoing monitoring and evaluation to ensure any emerging vulnerability issues are picked up and actioned appropriately.

While every effort has been made in the Livelihood Restoration Program (Chapter 8) and in the eligibility criteria (Chapter 6) to ensure that PAPs are resettled in a way that at a minimum re-establishes their current level of livelihoods and in the case of vulnerable PAHs provides for additional assistance, a few PAP households may emerge as vulnerable after resettlement for a variety of reasons, not within the Projects control. Therefore, all PAPs will be monitored carefully to identify any emerging vulnerability issues.

9.9 Engagement Processes for Vulnerable Groups

A key element of supporting vulnerable groups is ensuring that they have access to engagement processes so that:

- They are provided with sufficient information about the Project, including the potential impacts and opportunities relevant to them;
- They can respond and provide feedback to help shape processes and activities they are involved in;
- The development process fosters full respect for human rights, dignity, aspirations, culture, and natural resource-based livelihoods; and
- An ongoing relationship based on informed consultation and participation is established, ensuring free, prior and informed consent where required

9.9.1 Engagement with Women

The Project aims to facilitate meaningful engagement and access to information by vulnerable groups, including women.

In the case of women additional opportunities have been and will be provided to receive information and raise concerns / ask questions about what they consider to be a safe environment. Methods used to date have included:

- Individual or small group women-only discussions to allow participants time and space to share their views; and
- Intra-household meetings, including male and female household members.

During RAP planning, specific focus was made to encourage the involvement of spouses (many of which are women):

- During the community sensitization for the land surveys to inform landholders of their need to be present during the surveys they were informed to be accompanied by their spouses;
- During land delineation, and the asset inventory and socio-economic household surveys, spouses were encouraged to be present as far as possible and, if necessary, surveys were delayed until the particular spouse was present; and
- During the disclosure of compensation schedules, PAPs were given individual and private access to their compensation schedules, entitlements, and amounts. PAPs signed an acknowledgment letter to confirm that they had seen their individual schedule. Spouses were encouraged to be present during this disclosure and time was allowed for them to finish any activities they were busy with to give them the opportunity to attend.

Care has been and will be taken to prevent division between male and female partners, to respect cultural sensitivities and not appear to support a view that men should not partake in livelihoods and family support activities.

Going forward, appropriate methods to engage with women will continue to be utilized. In addition, PAPs will be informed that spouses should be present for the entitlement briefings and that Compensation Agreements will be structured to include a spousal consent form.

Where appropriate, the Project will seek joint bank accounts for PAPs, to enable spouses' access to compensation. Spouses will have access to the LRP.

9.9.2 Engagement with Vulnerable Ethnic Groups

Targeted measures have also been implemented to ensure adequate, equitable and culturally appropriate engagement with vulnerable ethnic groups who may self-identify as indigenous people (who may potentially be vulnerable to Project-related displacement impacts). These measures have included:

- In PACs where Kiswahili is not universally understood, resettlement stakeholder engagement teams have included persons who speak the relevant local languages. In general, however, PACs and PAPs preferred to identify their own translators – usually local leaders or family members whom they trusted;
- During the survey sensitization process, suitable persons from communities hosting vulnerable ethnic groups were sometimes appointed to assist the stakeholder engagement teams and facilitate a point of entry for the teams into vulnerable ethnic groups. These persons would be briefed about the Project, the sensitization process and his / her role as a member of the stakeholder engagement team;
- Engagement with communities hosting Vulnerable Ethnic Groups was always preceded by engagement with local PAC leaders to request their support, approval and assistance in engagement with the communities. This prior engagement with community leaders demonstrated respect for the status of Vulnerable Ethnic Groups. community leadership; and
- In recognition of the fact that, in pastoralist communities, mornings are often devoted to tending livestock, meetings in such communities were arranged for later in the day (after noon or in the evening).

9.10 Implementation Support for Vulnerable Groups

Different individuals and households will need different levels of support and assistance during resettlement implementation dependent on their specific area of vulnerability.

Specific initiatives to protect and support vulnerable groups which may be considered include:

- Ensuring Compensation Agreements contain a spousal consent;
- Identifying ways to help reduce women's workload and improve family services such as improved access to water and basic services;
- Improving financial stability through a money management program, e.g. by supporting credit groups, providing skills training, supporting access to markets;
- Supporting education development, particularly numeracy and literacy, financial management and planning;

- Strengthening the participation of vulnerable groups in decision making processes by providing support such as training, access, and safe conditions to encourage participation;
- Promoting equal opportunities for employment on the Project by ensuring that employment opportunities are advertised and open to all groups;
- Consider the needs of vulnerable individuals and groups where possible during site selection for replacement housing / replacement land such as access to facilities, services, transport etc.;
- Assisting vulnerable groups and individuals in dismantling and moving assets;
- Providing support (not just monetary compensation) to vulnerable groups where the re-building of structures is required; and
- Ensuring vulnerable individuals have priority access to LRPs.

9.11 Implementation and Responsibilities

The VPP will be implemented in parallel to the wider RAP implementation and conclude only when the livelihoods of vulnerable people have been restored to at least pre-Project levels (as determined by a completion audit) The VPP may be updated during the RAP implementation program.

All activities to support vulnerable groups are documented and tracked within the Register of Vulnerable Individuals and Households. Tracking activities may include:

- Ongoing engagement with the Village Development Committee (VDC) (where operational) as part of the monitoring of vulnerable households;
- Engagement with authorized spokespersons for vulnerable ethnic groups at village or ward level;
- Identifying and recording information about vulnerable individuals and households in the Register of Vulnerable Individuals and Households;
- Monitoring all measures developed to support vulnerable individuals and households through the compensation process and livelihoods restoration activities; and
- Monitoring livelihood restoration.

The stakeholder engagement teams will be responsible for ensuring that additional engagement methods are used to facilitate the participation of vulnerable groups.

The Project social investment team will be responsible for managing the participation of vulnerable individuals in appropriate social investment projects.

Responsibility for coordinating and monitoring the status of vulnerable people and the associated support activities falls within the scope of the Livelihood's Restoration Implementation team with an independent bi-annual review

10 CONSULTATION AND DISCLOSURE

10.1 Introduction

Stakeholder consultation forms an integral part of the RAP planning process and will also be central during disclosure and implementation of the land acquisition and resettlement process.

It provides opportunities for affected and / or interested stakeholders to offer input into the RAP process and could help shape priorities, processes and outcomes, not only during planning but also during the implementation stage.

This chapter summarizes:

- Project engagement principles and objectives of engagement;
- Identification of stakeholders;
- Engagement structures;
- Engagement methods applicable to the RAP planning stage;
- Engagement support and measures adopted for specific stakeholder groups;
- Consultation activities during the RAP planning phase, including the disclosure of the RPF and the plan for the Kagera RAP disclosure; and
- The Project Grievance Management procedure and findings during the RAP planning phase.

10.2 Engagement Principles and Objectives

The Project is committed to openness, dialogue and engagement as it views long term, transparent relationships with stakeholders across all levels as essential to its success.

In its Stakeholder Engagement Plan²¹⁶, the Project outlines ten (10) stakeholder engagement principles that guide its engagement activities. These principles have been developed based on GIIP, national regulations and partner company guidelines. They are summarized in Table 10-1. The Project stakeholder engagement objectives are presented in Table 10-2.

²¹⁶ EACOP Stakeholder Engagement Plan. Document Number TZ-MID-60-0120-200299.



Figure 10-1: Kiguze Village, Karambi Ward, Muleba District, Kagera Region, Focus Group Discussion

Table 10-1: EACOP's Stakeholder Engagement Principles

No.	Principle	Definition
1	Open and Transparent	Information relevant to project activities will be as accessible and transparent as possible, providing stakeholders with a comprehensive understanding of Project activities and how they are or may be affected by them.
2	Listening and Dialogue	Stakeholders will be invited and encouraged to actively engage with the Project. Stakeholders will be listened to, their questions and concerns taken seriously, and responses provided in a timely manner.
3	Empowering	Engagement should ensure stakeholders have an opportunity to share their perspectives. This will include informing them of what they can expect in terms of feedback and responses to their inputs.
4	Proactive	The engagement process will provide information in advance of Project related activities.
5	Impact Focused	Engagement with communities affected by the Project will be, whenever possible, focused around the potential and actual negative Project impacts and mitigation measures that may concern them.
6	Safe	Steps will be taken by the Project towards ensuring stakeholder engagement is free from manipulation, interference, coercion or intimidation and that participation in any form of engagement will be safe and without risk or fear for retaliation.
7	Effective	Information and forms of engagement will be acceptable to and effective for the stakeholder for whose use they were intended and will be accessible, legitimate and transparent.
8	Appropriate	Different forms of engagement may be required for different kinds of stakeholders and different purposes. Information provided to stakeholders will be provided in formats appropriate and accessible to the stakeholder concerned.
9	Equal and Human Rights Respectful	Everyone, without discrimination, will be afforded the right to participate on equal terms.

No.	Principle	Definition
10	Gender and Culture Sensitive	Engagement approach will include the need for and use of any special measures to ensure that marginalized or vulnerable individuals and groups are inclusively engaged.

Table 10-2: Project Stakeholder Engagement Objectives

The Project's objectives for meaningful stakeholder engagement are to:

- Ensure that local stakeholders are informed as early as possible about Project activities;
- Build trust and broader community support for future operations, including understanding and monitoring the way that impacts are being managed and international standards are being applied;
- Ensure that engagement is undertaken in a coordinated fashion using the same principles, standards, messages, etc.;
- Gain access to civil society expertise, skills or resources to assist with, for example, social investment, livelihood restoration project development and implementation, achieving local content targets and implementing the Voluntary Principles on Security and Human Rights (VPSHR);
- Facilitate the creation of partnerships to the mutual benefit of the Project and stakeholders including Civil Society Organizations (CSOs) and enhance reputation;
- Identify opportunities and risks related to activities early, in order to intervene and avoid escalation in the case of risks;
- Ensure that stakeholder queries are handled in time through continuous engagements; and
- Identify and address potential human rights impacts and respect the rights to information and consultation of affected stakeholders.

10.3 Stakeholder Identification

EACOP's Stakeholder Engagement Plan defines stakeholders as:

"...persons or groups external to the core operations of the Project who may be affected by the Project or have an interest in it or may have influence over it. This may include individuals, businesses, communities and local government authorities, local non-governmental and other institutions. Local communities potentially impacted by the Project and their local and traditional authorities are regarded as key stakeholders".

The Project has identified relevant stakeholders that fall within these categories. Details of these can be found in Appendix C as the following:

- Key national level GoT stakeholders (Appendix C, Table C-1);
- Key regional and district GoT stakeholders (Appendix C, Table C-2);
- Key village level stakeholders (Appendix C, Table C-3);
- International and national NGOs (with focus on land and livelihoods matters) (Appendix C, Table C-4); and
- CSOs, CBOs and NGOs active in the region (with focus on land and livelihoods matters) (Appendix C, Table C-5).

10.3.1 Affected Stakeholders

Project Affected Persons

This group is directly affected by land acquisition, will experience physical and / or economic displacement, and has therefore been prioritized for engagement by the Project. This group may include individuals, households and villages with affected Village Land who have been identified and recorded within the detailed surveys and valuation activities undertaken to date. These affected groups are described further in Chapter 5. Project-related impacts on this group may include:

- Physical displacement due to loss of dwelling structures;
- Economic displacement due to loss of land / access to land;
- Economic impact due to loss of access to other land that form part of their livelihood strategies (e.g. forests, grazing areas, fishing ponds, village land or land traditionally used by vulnerable ethnic groups);
- Impact on community relations due to changes in access, existing social structures, and livelihoods; and
- Other social, cultural or human rights impacts that could be affected by the resettlement process.

Their interest in this process therefore includes:

- Having meaningful engagement with the Project throughout the resettlement process to ensure access to information and dialogue around impacts;
- Project impact on PAPs' land and structures; validity of verification; compensation rates and processes; and replacement of assets;
- Livelihood restoration options and assistance during the resettlement process;
- Construction timelines and activities; and measures to mitigate the impacts of temporary access restrictions during construction as per Section 5.9 (temporary impacts);
- Employment opportunities; and
- Benefits to local communities.

Project Affected Communities

PACs include the PAHs' village of residence and the community the PAHs may be moved to, i.e. the host community if relevant. The intention is to move PAHs within the ward / village boundaries. These communities are described further in Chapter 5. Project-related impacts on this group may include:

- Physical splintering (e.g. community divided in two (2) by an access road); and

- Social disintegration / conflict (e.g. new residents are not welcomed when they move between villages), which is expected to be an unlikely occurrence, given the Project's intention to move PAHs within ward / village boundaries; and
- Economic impact due to loss of access to other land which form part of their livelihood strategies (e.g. forests, grazing areas, fishing ponds, village land or land traditionally used by vulnerable ethnic groups).

Their interest in this process therefore includes:

- Project progress including construction timelines and activities and measures to mitigate the impacts of temporary access restrictions during construction;
- Resettlement process, including location of replacement land and replacement houses;
- Employment opportunities; and
- Benefits to local communities.

Interested Stakeholders

Interested stakeholders are defined as those groups who may not be directly affected by the land acquisition displacement impacts but who, by their position, knowledge and / or experience, are able to influence the outcome of the Project.

The main categories of interested stakeholders relevant to the RAP process for this Project are discussed below.

The Government of Tanzania

The GoT, along with the GoU, is a partner in the Project. Engagement activities between PPT and the GoT are wide-ranging, across the national, regional, district and ward levels and across a range of technical areas, including resettlement.

As described in the RPF, land matters are the responsibility of MLHHS, in collaboration with local authorities. The ME is the lead ministry managing development and delivery of the Project. The Project requires cooperation from a wide range of government organizations at national, regional, district, and ward levels, and also from village level authorities. These stakeholders play key roles in land acquisition, compensation and resettlement.

Such roles are documented in the RPF and summarized in Appendix C: Tables C-1 and C-2.

Civil Society Organizations including Non-Governmental Organizations and other Community Based Organizations

NGOs and CBOs are a diverse stakeholder group that, collectively, can play an important role in resettlement planning and implementation for projects such as the EACOP.

They can act as an independent third party to facilitate community engagement with the Project; particularly at key points in the Project schedule, such as during payment of

compensation. They can also contribute, as implementation partners, to livelihood restoration activities and potentially other parts of the RAP. The list provided in Appendix C will be updated on an ongoing basis.

International Financial Institutions

Financing for the Project is being sought from IFIs and, as described in Chapter 3 and the RPF. The Project is being managed and subsequently implemented to relevant IFI standards.

Of particular relevance for this section are the applicable engagement requirements of the IFC's PS1 Assessment and Management of Environmental and Social Risks, PS5 Land Acquisition and Involuntary Resettlement and IFC PS 7 on Indigenous Peoples.

10.4 Project Engagement Structures

The Project stakeholder engagement, particularly at the local level, is designed and undertaken by Project engagement teams, in consultation with key GoT and community stakeholders. These teams use a variety of structures and processes to ensure accurate and effective communication is tailored to the needs of different stakeholder groups.

There is one (1) key group and three (3) key teams relevant to Project RAP planning engagement. These are:

- The LARWG (Combination of GoT and Project representatives);
- The Project Stakeholder Engagement team (EACOP);
- The Project RAP Planning and Implementation teams (EACOP); and
- The RAP Planning Consultant team (DWC).

All activities are guided by EACOP's central Stakeholder Engagement Plan and coordinated in alignment with this.

10.4.1 Land Acquisition and Resettlement Working Group

The LARWG is a committee comprising EACOP and GoT technical representatives.

It was established in March 2018, during the early stages of the EACOP resettlement planning process and meets regularly to receive updates on the land acquisition and resettlement process, discuss issues and provide input into planning and implementation.

It is chaired by the ME's Project country coordinator. The EACOP Project team provides secretariat support together with the LARWG representative from TPDC.

Core LARWG members are the ME, TPDC, TPA, MLHSD and the EACOP Project. Other relevant government agencies attend meetings when required. These include: TANROADS, TARURA, TAWA / Tanzania National Parks Authority (TANAPA) / TFS, Water Basin Authority, TANESCO, TTCL and the TRC.

Broadly, the LARWG's responsibilities are to:

- Review the progress of planning and implementation of the land acquisition and resettlement process;
- Identify arising issues and the process that require discussion between the Project and the GoT in order to advance the land acquisition process;
- Identify risks to the Project schedule and land access requirements, and seek solutions to drive the process;
- Advise on resolving any disputes, complaints and concerns related to resettlement and compensation raised by communities / individuals as needed; and
- Update the Steering Committee, Project and GoT on the Project's the Project's land acquisition progress and status.

10.4.2 Project Stakeholder Engagement Team

During the preconstruction period and prior to delay of certain Project activities, the Stakeholder Engagement and Social Studies Coordinator based in Dar es Salaam, led the EACOP Project Stakeholder Engagement team has two (2) Stakeholder Engagement Coordinators based in Dar es Salaam and 24 Community Relations Coordinators (CRCs) and Community Liaison Officers (CLOs), across the pipeline route. Each CRC / CLO pair is responsible for between two (2) and five (5) districts.

Two (2) teams have been and will be active in the Kagera Region. Dedicated CLOs were and will be recruited to support the land acquisition process and other RAP implementation activities.

The teams report to the EACOP Stakeholder Engagement and Social Studies Coordinator.

10.4.3 Project RAP Planning and Implementation Teams

Two (2) teams lead land acquisition and resettlement activities based in Dar es Salaam with regular travel to site. The teams work in close coordination with the EACOP Stakeholder Engagement team as well as the RAP Planning Consultant team, which is responsible for resettlement planning related engagement.

The teams report to the EACOP Land and Social Manager.

10.4.4 RAP Planning Consultant Stakeholder Engagement Team

During the resettlement planning activities, the RAP Planning Consultant deployed four (4) groups focusing on Project stakeholder engagement, collectively referred to as the RAP Planning Consultant Stakeholder Engagement team. These were the:

- Stakeholder Engagement team that formed part of the survey team referred to in Section 4.3.2;

- Stakeholder Engagement team that formed part of the valuation team referred to in Section 4.3.3;
- Stakeholder Engagement team that formed part of the disclosure team referred to in Section 4.3.3; and
- A team of social specialists and assistants (the SELI team) referred to in Section 4.3.5.

The Stakeholder Engagement team that formed part of the survey teams supported the field-based sensitization meetings, land delineation, asset valuation and socio-economic surveys (described in Chapter 4) and comprised 27 stakeholder engagement personnel that supported related engagement activities across the Project.

Each survey team included a Stakeholder Engagement team with a:

- Stakeholder Engagement Coordinator;
- Stakeholder Engagement Lead; and
- Stakeholder Engagement Assistant Facilitator.

There were three (3) teams surveying Kagera therefore a total of nine (9) field-based engagement resources supported the survey activities.

Dedicated engagement resources also formed part of the valuation and disclosure teams that completed the validation and disclosure activities, with two (2) engagement resources per team.

In addition, the SELI team conducted a range of interviews, discussions and meetings, individual and group based, with PAPs and non - PAPs to inform the livelihood restoration planning.

These engagement activities were undertaken in consultation with the Project CRCs / CLOs.

The primary responsibilities of the RAP Planning Consultant's Stakeholder Engagement team were to:

- Liaise with the Project CRCs / CLOs to arrange and conduct meetings at district, ward and village level such as sensitization, verification, disclosure and focus group meetings;
- Ensure PAPs are informed and understand the land acquisition process, the displacement impacts on their households and their rights to compensation;
- Ensure engagement methods are adapted to the PAPs and that any identified vulnerable PAPs receive additional engagement as necessary;
- Ensure that women participate during the land acquisition process including being present during land delineation, surveys and initial disclosure;

- Maintain clear and concise engagement records particularly in the case of vulnerable groups and transfer these to the EACOP Project team for their follow up; and
- Assist in receiving, recording and addressing resettlement and land related grievances in accordance with the Project's Grievance Management procedure. This included the use of Project Grievance Books to register grievances, ongoing engagement with the Project Stakeholder Engagement team to inform them of grievances raised in relation to the RAP planning activities, and implementation of actions, in consultation with the Project, to address these.

10.5 Engagement Methods

Not all stakeholder groups require the same type or depth of information and therefore the Project has used a range of engagement strategies, methods and frequency of engagement for specific stakeholder groups, dependent on the objective of the engagement activities.

10.5.1 Language of Engagement

The official languages in Tanzania are Kiswahili and English. Engagement materials for the Project were developed and usually shared in both Kiswahili and English. Where the understanding of Kiswahili and English is limited, the Project will endeavor to make information available in the preferred language and / or to have interpreters available.

Where there are groups who speak minority languages, and do not sufficiently understand the Kiswahili language or cannot respond and ask questions in Kiswahili, resettlement related stakeholder engagement teams include persons who speak the relevant languages and are familiar with the cultural context and protocol.

Translations were required especially where women were present, with males generally conversant in Kiswahili. In general, PACs and PAPs preferred to identify their own translators, usually the local leaders or family members they trusted. Thus the teams enlisted the assistance of local leaders / community members. During RAP planning, the CLO in Muleba accompanied the SELI team to assist with translations to Kihaya at female FGDs and other meetings, where required. A male member of the team fluent in Kisukuma and Kiswahili and assisted with these translations where necessary.

10.5.2 Community Engagement Materials

Supporting materials have been developed to support resettlement related engagement activities, particularly with community stakeholders. Examples of engagement materials developed include presentations; storyboards; and frequently asked questions (FAQs).

These engagement materials have been updated on an ongoing basis to address additional questions identified through analysis of engagement records, review of grievances submitted, and feedback from the RAP Planning Consultant and Project Stakeholder Engagement teams.

EACOP Project communications materials in Kiswahili have been extensively used during resettlement engagement activities, including the Project's general presentation flyer, Grievance Management procedure flyer and FAQs booklet. The Grievance Management procedure flyer is available in Maasai.

10.5.3 Engagement Methods

Various engagement methods have been used to support resettlement related engagement. These have included:

- LARWG meetings and other GoT meetings / meetings with specific government departments;
- Quarterly regional meetings
- Community meetings / meetings with specific groups;
- Meetings / interviews with NGOs;
- FGDs / small-group meetings with minority groups / vulnerable ethnic groups;
- Formal and informal one-on-one discussions with PAHs / PAPs, including vulnerable ethnic groups; and
- Display and distribution of printed information.

All consultations were arranged using the accepted governance structures in place in the Kagera Region. RAP consultation was not specifically aimed at achieving FPIC but was designed and implemented in such a way that it prepares for eventual FPIC. The Project has only identified 1 PAH from a vulnerable ethnic groups in Kagera Region.

The Project will undertake additional consultation and engagement with the vulnerable ethnic groups in the relevant regions to assess the potential impacts on the rights of these groups and to develop any additional mitigation measures required to meet the Project's commitments to international standards and good practices related to FPIC.

A summary of engagement methods, their application, tools / materials and process is provided in the table below.

Table 10-3: Summary of RAP Engagement Methods and Information Dissemination Tools

No	Method	Application	Tools / Materials	Deliverables
1	Meetings with the LARWG	Meetings to discuss progress, plans, challenges and issues related to the RAP.	Presentations Technical information documents / summaries Instruction letters.	Agendas Attendance registers Meeting invitations Meeting notes.

No	Method	Application	Tools / Materials	Deliverables
2	Government meetings / meetings with specific government departments	Government meetings have been used to provide information and to consult. At district level, Project team members new to the district have been introduced.	Posters Presentations Flyers / brochures FAQs Maps Storyboards.	Agendas Attendance registers Meeting invitations Meeting notes.
3	Community meetings / meetings with specific groups	Community meetings have been used to provide information and to consult regarding processes such as valuation methods.	Posters Presentations Flyers / brochures FAQs Maps Storyboards.	Agendas Attendance registers Meeting invitations Meeting notes.
4	Meetings / interviews with NGOs / CSOs	Discuss issues / livelihood restoration.	Technical information documents / summaries.	Agendas Attendance registers Meeting invitations Meeting notes.
5	FGDs / small-group meetings for minority / vulnerable / unique stakeholder groups	Focus group meetings have been used to discuss specific issues such as valuation methods, livelihood restoration activities with specific groups of people and to specifically focus on the issues / concerns / context of these groups.	Posters Presentations Forms Flyers / brochures FAQs Maps Storyboards.	Agendas Attendance registers Meeting invitations Meeting notes.
6	Formal one-on-one discussions with PAPs / PAHs	Discussion of sensitive information such as valuation results, vulnerable families.	Forms FAQs Maps Storyboards.	Summary of discussions signed by parties present.
7	Informal discussions	Unplanned / ad hoc discussions with individuals / groups.	Flyers / brochures FAQs Storyboards.	Summary of discussions.
8	Display / provision of printed information	Provision of printed materials at information desks / village offices and to PAP / stakeholders.	Forms Flyers / brochures Posters Maps.	Distribution of materials is recorded to keep track of the type and number of materials and area of distribution.
9	Village notice boards	Short notices / posters. Information sharing updates.	Short information snaps.	Record of distribution.

10.6 Consultation During the Resettlement Planning Phase

This section broadly describes the land acquisition and resettlement related engagement activities for the development of the Kagera RAP.

10.6.1 Land Acquisition and Resettlement Working Group Meetings

LARWG meetings have been held since 29th March 2018 to guide development of the RAP strategy and provide input into RAP planning. A summary of LARWG meetings including participants and key discussion points can be found in Appendix C (Table C-6). Table 10-4 summarizes the number of meetings and attendees to date.

Table 10-4: LARWG Attendees and Meetings to Date

LARWG Meetings (March 2018-September 2019)	
Number of meetings held to date	24
Number of Attendees (excluding EACOP and RAP Planning Consultant attendees)	165

10.6.2 Government Entities and Regional Meetings

The RAP Planning Consultant's Stakeholder Engagement team met during the RAP planning stage with the regions affected by the Project and government ministries to discuss specific resettlement related topics.

To date there have been six (6) sets of meetings with the Kagera Regional Government focusing on elements of the RPF and pipeline RAP planning. These were held in:

- July 2018: Sensitization meeting, focusing on survey preparation;
- September 2018: Progress, focusing on completion of surveys and the validation process;
- December 2018: Land acquisition progress, focusing on the validation activities;
- March 2019: Update on land acquisition activities including planned disclosure;
- June 2019: Update on land acquisition activities including planned disclosure; and
- October 2019: Update on land acquisition activities including disclosure activities.

Appendix C (Table C-7) contains a summary of meetings with national and regional level government entities prior to November 2019.

10.6.3 Engagement at District, Ward and Village Levels

To date, engagement has been held at district, ward and village levels, as follows:

- **Sensitization meetings** at all three (3) levels to:
 - Provide information on the survey process and discuss GoT oversight and support during the surveys;

-
- Provide notice to complete asset registration and delineation of lands;
 - Inform stakeholders of assets to be recorded and the recording mechanism;
 - Inform stakeholders of the purpose of valuation, procedures involved, duration of the valuation exercise, applicable compensation rates and legal rights and obligations of PAPs;
 - Inform landholders of their need to be present during the surveys accompanied by their spouses;
 - Announce and explain the cut - off date; and
 - Disclose and discuss Project's Grievance Management procedure.
- **Survey processes** (Land delineation, asset inventory and socio-economic household survey), involving one-on-one discussions with PAHs / PAPs. Whenever possible spouses have been encouraged to be present and if necessary, surveys have been delayed until the spouse was present. The process included:
 - Disclosure of the specific cut-off date for each village at Village Assembly sensitization meetings;
 - Undertaking of a land delineation survey to map the Project affected area and identify PAPs whose land and assets are in the mapped area;
 - Asset inventory to record where the type and number of assets (e.g. structures, land, crops, etc.) are located on land earmarked for the Project. This was then reflected on Valuation Form No. 3, signed by the PAP, valuer, and village leader (one (1) copy of the document remains with the PAP); and
 - Socio-economic household survey to assist the study team in assessing how the loss of land, crops and / or structural assets will affect each household and how livelihood restoration can be effectively implemented.
 - **Public disclosure of land and assets records compiled during the survey:** The land and assets recorded (Asset Valuation Schedule) were posted on the village notice board. PAPs were required to confirm the content of the asset inventory appearing in their Valuation Form No. 3 against this schedule, which was subsequently used to determine compensation.
 - **Validation of land and assets:** Each village was visited again five (5) to seven (7) months later to (a) inform PAPs about any modification in land requirements resulting from the internal assessment of provisional survey findings and grievances / queries received to date, and (b) determine if any additional queries or grievances had been lodged in respect of the information that was recorded.
 - **Disclosure of compensation schedules:** PAPs will be given individual and private access to their compensation schedules, entitlements and amounts. PAPs signed an acknowledgment letter to confirm that they had seen their individual schedule.

Spouses were encouraged to be present during this disclosure and time was allowed for them to finish any activities they had underway and attend.

- **Qualitative data** was collected by the SELI team through FGDs and KIs to understand the constraints, challenges and opportunities PAPs face and to develop a more complete understanding of the likely impacts of displacement and resettlement on livelihoods. This information informed the development of this RAP, as well as RAP planning and implementation activities more generally.
- **Forestry meetings** were held to discuss the land acquisition process of Reserved Land and its validation process.

Table C-8 and C-9 in Appendix C provides further details of these engagement activities and Table 10-5 and Table 10-6 provide details on the number of meetings and attendees excluding the Project and RAP Planning Consultant personnel that were present.

Table 10-5: Number of Formal RAP Planning Phase Meetings

Meeting Type	Sensitization Meeting	Validation Meeting	SELI Meeting	Forestry Meeting	Disclosure Related Meeting	TOTAL
Regional Level Meetings	1	3	N / A	N / A	2	6
District Level Meetings	5	7	38	3	8	61
Ward Level Meetings	19	19	5	N / A	17	60
Village Level Meetings	49	20	107	N / A	35	211
TOTAL	74	49	150	3	62	338

Table 10-6: Number of Attendees at Formal RAP Planning Phase Meetings

Meeting Type	Sensitization Meeting	Validation Meeting	SELI Meeting	Forestry Meeting	Disclosure Related Meeting	TOTAL
Regional Level Attendees	42	111	N / A	N / A	110	263
District Level Attendees	18	16	157	9	21	221
Ward Level Attendees	144	368	94	N / A	245	851
Village Attendees	412	298	1509	N / A	321	2 540
Village Assembly Attendees	2 700	374	N / A	N / A	995	4 069
TOTAL	3316	1167	1 760	9	1 692	7 944

Table C-10 in Appendix C provides an overview of issues raised. An issues-and-comments register was collated during RAP planning, which will continue to be maintained during RAP

implementation (see Chapter 11) by the Project and is part of the Project stakeholder engagement records. Issues raised were used to update and inform the FAQs and agenda items at future consultations and / or meetings.

Table 10-7 below provides a summary of these recorded questions or issues raised at ward and village level. Out of 739 questions and issues raised, 415 related to land and housing. As resettlement planning activities progressed from sensitization to validation and SELI meetings (which occurred in parallel), a change in emphasis was evident in the land and resettlement issues raised. Initially, most questions were about the approach to the compensation of different land and crops types and the use of the corridor after the cut-off date; later on, the focus was more on timing of compensation payment and, in SELI discussions, the impacts of discontinuation of the farming activities after the cut-off date. Other economic loss concerns included transitional assistance, as well as access to and traversing of the pipeline corridor during construction and operation. The number of questions and issues related to land and resettlement between the sensitization and disclosure meetings decreased significantly, which is an indication that, for most part, the information disclosure process during sensitization and validation provided clarity on land and resettlement concerns.

Table 10-7: Number of Issues Raised at Ward and Village Level Meetings

Category	Sensitization Meeting	Validation Meeting	SELI Meeting	Disclosure Meeting	Total
Land and Housing.	192	69	100	54	415
Livelihoods (economic loss).	15	13	50	8	86
Employment and Supply Chain.	46	4	8	0	58
Environment and Health (nuisances / pollution).	2	0	7	0	9
Safety (transport, explosion).	7	2	18	0	27
Social Conduct and Security.	5	0	3	9	17
Cultural Heritage.	22	0	3	1	26
Social Investment Projects.	28	19	11	1	59
Engagement and Communication.	10	16	5	11	42
Total	327	123	205	84	739

10.7 Engaging Specific Stakeholder Groups

In addition to the information shared in Section 10.5, the following steps were taken to ensure meaningful participation of all stakeholders:

- There has been a particular focus on facilitating women's equal access to information by providing additional opportunities to receive information and raise concerns / ask questions in what they consider to be a safe environment. Care has been taken to avoid division between male and female partners and not appear to support a view that men should not partake in livelihood and family support activities. The methods included:

- Individual or small group women-only discussions to allow participants time and space to share their views. The SELI team had approximately 30 of these discussions, with an estimated 100 potentially vulnerable female PAPs attending²¹⁷;
- Intra household meetings including male and female household members. These mostly took place during the SELI team's corridor walks (see Section 4.3.5) and during disclosure of the compensation schedule; and
- Requesting spouses to be present at compensation schedule disclosure meetings. The village meetings consisting had approximately one third (33%) females in attendance and one-on-one PAP meetings were attended by spouses for one (1) in five (5) meetings, of which approximately half of the spouses were male and half female;
- Where there are groups who do not sufficiently understand the Kiswahili language, resettlement related stakeholder engagement teams have included persons who speak the relevant local languages, mostly Kihaya and Kisukuma in Kagera Region;
- Where required, assistance has been provided to transport vulnerable persons, such as the elderly, to stakeholder engagement meetings, or the Project engagement teams have met with these persons at their place of residence / hamlet for focused discussions, for example exploring livelihood strategies. SELI teams endeavored to meet attendees at their hamlets since travel time on foot between the village offices and the hamlet could amount to up to two (2) hours one (1) way, for example in Kiguzi Village;
- During stakeholder consultation, a standing item on the agenda has been to discuss any specific measures required to address the requirements of potentially vulnerable groups; and
- Implementing a tracking system and keeping records of meetings.

10.8 RPF and RAP Disclosure Meetings

IFI requirements stipulate that a Project's RPF and RAP are publicly disclosed.

The RPF has been publicly disclosed and RPF documentation is available on the Project website in both English and Kiswahili²¹⁸. Hard copy RPF documents in English and Kiswahili languages have been provided to the ME to enable circulation to the eight (8) regions and 27

²¹⁷ Potentially vulnerable PAPs were identified by taking cognisance of information shared during individual or small group introductions and discussions.

²¹⁸ The specific documentation available on the Project website is: i) the full RPF document in English language; and ii) a summary RPF document in Kiswahili language (this comprises the Executive Summary and Chapter 6 Eligibility and Entitlements / Compensation Framework).

district councils / town councils / city councils affected by the Project. Commencing December 2018, follow up briefing sessions for regional and district level stakeholders were integrated with the education and awareness sessions related to RAP implementation.

This Kagera RAP will be provided to the GoT for a 30-day comment period and is planned to then be disclosed publicly for a 120-day period.

Key points of the RAP will be summarized and translated into Kiswahili and other languages for a non-technical summary for provision to the WDCs and VDCs and a poster will be displayed at key meeting points at the local level (e.g. regional, district and ward offices). Translation into Maasai and other languages will be considered where required for informed consultation and participation.

A simplified version of the updated entitlements framework included in the RAP will also be translated into Kiswahili. This documentation will be provided to each Project affected district. Translation into Maasai and other languages will be considered where required for informed consultation and participation.

Copies of the RAP (in English) will be available at the EACOP Project head office in Dar es Salaam, and on the Project website.

10.9 Grievances and Grievance Mechanism

Even with the implementation of a proactive stakeholder engagement system, unexpected issues and complaints will arise. To ensure consistency and coherency across the Project, the standard Project Grievance Management procedure and associated documentation have been developed and implemented. The Project Grievance Management procedure will be adapted if found to be necessary to ensure accessibility and effectiveness for vulnerable groups including vulnerable ethnic groups.

10.9.1 Overview of the Project's Grievance Management Procedure

Grievances / complaints can be reported through the following channels:

- Project CRCs / CLOs;
- Toll free line: 0800 780 068;
- The Project offices;
- Project staff and contractors in the field; including the RAP Planning Consultant team (for land and resettlement related grievances); and
- Local leaders.

The Project Grievance Management procedure is open to all stakeholders who regard themselves as affected by the Project's activities, whether received by the Project directly or via one (1) of its contractors. Occasionally, regional and district officials receive Project-related grievances directly. In such cases, these are communicated to the Project to act on.

Within the Project Grievance Management procedure, resettlement related grievances are managed as follows:

- Project-related grievance received from stakeholder (orally or written) by the Project or RAP Planning Consultant team member, or by a district officer: If received by a District officer or the RAP Planning Consultant it is forwarded to the Project CRCs / CLOs for recording in the centralized Project grievance management database;
- Recorded grievances are categorized so that those related to resettlement / land acquisition / compensation are separated from those dealing with other aspects of the Project (e.g. environmental impacts, contractor conduct, employment, etc.);
- During the resettlement planning phase, the RAP Planning Consultant team works with the Project to address any grievances related to resettlement / land acquisition / compensation that have been recorded in the Project grievance management database;
- The EACOP Project Grievance Management procedure is used for addressing and resolving these grievances; and

Feedback is provided to district officials on resettlement related grievances that have been recorded in the Project grievance database, as well as on progress in addressing or resolving these.

- Where the Project and a complainant cannot agree on the resolution of a grievance, the complainant is advised of alternative channels they may take to seek redress. This grievance mechanism process is summarized in Figure 10-2.

10.9.1 Summary of Grievances

One land acquisition and resettlement related grievance was submitted to the RAP Planning Consultant in the Kagera Region, in Burungura Ward. The grievance related to the use of property without consent from the owner. This grievance was closed in a satisfactory manner.

10.9.2 Ongoing Resettlement Related Grievance Management

The current EACOP Project Grievance Management procedure will continue for the remainder of the resettlement process, specifically during RAP implementation. The RAP Planning Consultant team continues to work in accordance with this procedure and remains involved in the resolution of resettlement planning and land related grievances.

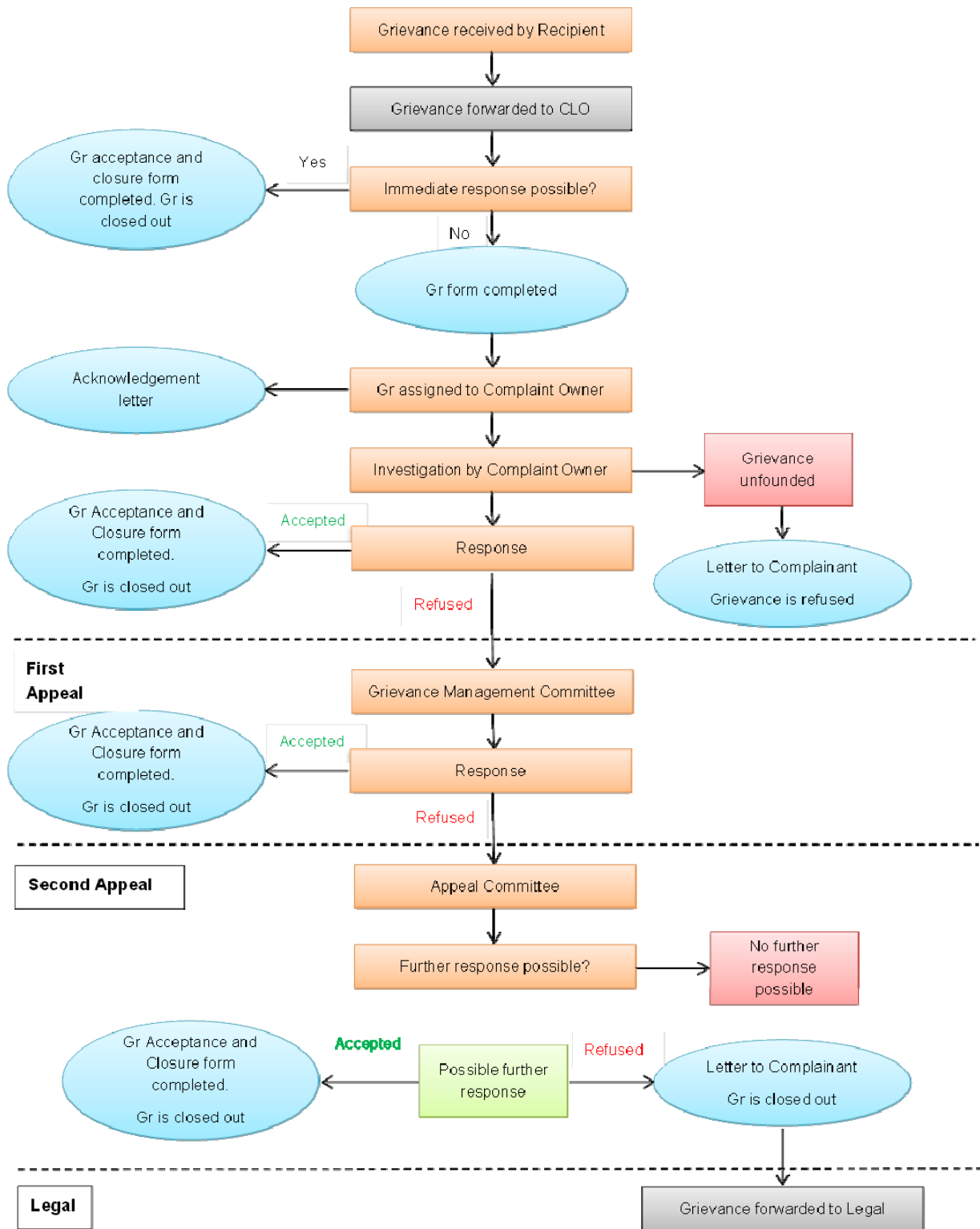


Figure 10-2: Grievance Management Flowchart

11 IMPLEMENTATION OF LAND ACQUISITION AND RESETTLEMENT

11.1 Introduction

This chapter provides an overview of the key activities and processes required for the implementation of the RAP and the completion of land acquisition and granting of rights. This includes the primary roles and responsibilities of key stakeholders, including both the Project Company and the Government of Tanzania (GoT).

11.2 Implementation Timing and Approach

Given the scale, logistics and potential complexity associated with the implementation of the RAP, it will take place over three phases that, will allow for more accurate budgeting and scheduling, inclusive stakeholder engagement, as well as ensuring key activities and processes are completed in a sequential and logical manner. These phases are not sequential and some activities within them will occur in parallel (see Chapter 12).

- **RAP Implementation Planning.** During this phase, work will predominantly focus on the legal requirements for land acquisition and conversion. Final engagement will also be undertaken relating to entitlement and compensation determination;
- **Implementation.** This phase will focus on the drafting and signing of the individual household compensation agreements and the subsequent implementation of their requirements including payment of compensation, construction of replacement housing and relocation and transition support; and
- **Project support Activities.** This will include the initiation and ongoing input to the various livelihood restoration activities (as described in Chapter 8) as well as the implementation of the monitoring and evaluation programme (as described in Chapter 13).

Ongoing stakeholder engagement, as described in Section 11.6, and grievance management will occur throughout. Figure 11-1 provides an overview of the key components. A detailed breakdown of the various activities is provided in the subsequent sections.

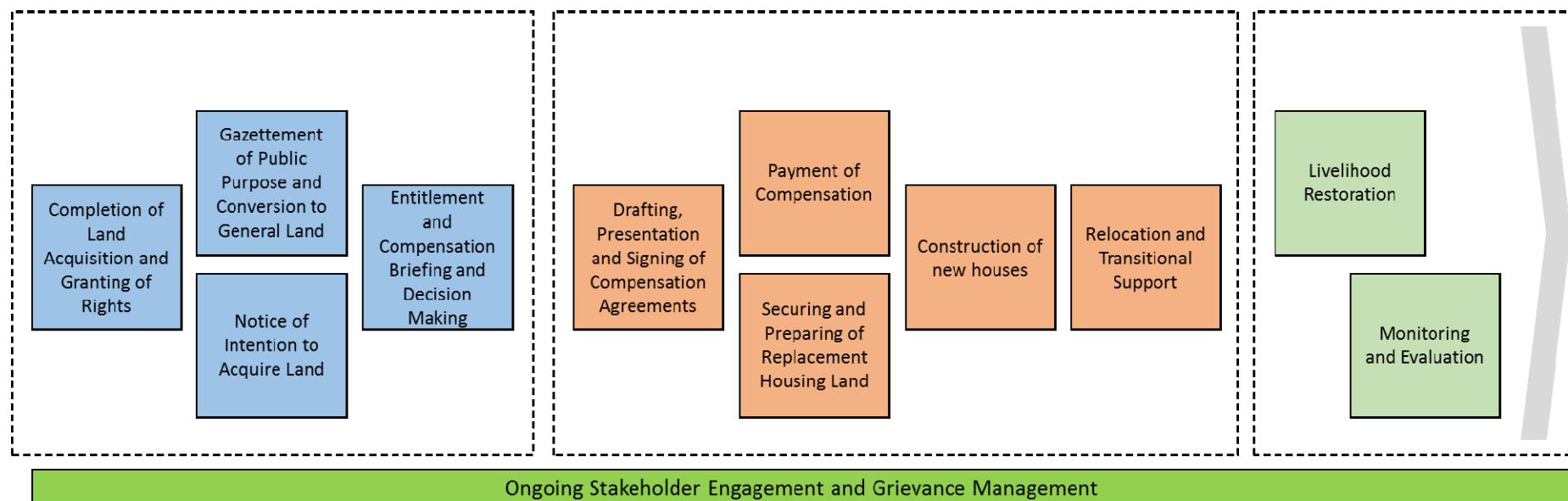


Figure 11-1: Overview of RAP Implementation Approach and Phasing²¹⁹

²¹⁹ Some activities are undertaken in parallel and not sequential – see Chapter 12 for further details

11.3 RAP Implementation Planning

The land acquisition will be undertaken to meet the provisions of the LAA with the GoT and PPT working in collaboration, as appropriate. This process will include the completion of the land acquisition process and subsequent granting of rights of the Land Acquisition Process. The process is presented in Chapter 4 (see Figure 4.1) and the RAP implementation steps summarized below.

11.3.1 Gazettement of Public Purpose and Conversion to General Land (Step 5)

Land for the Project will be acquired on the basis that it is required for public interest²²⁰.

The Notice of Intention to Acquire Land will be published in the Government Gazette and presented to the PAPs²²¹. This will occur prior to the meetings with the PAPs and affected communities regarding compensation agreements.

The majority of land acquired for the Project will be converted into General Land by the GoT.

11.3.2 Final Entitlement and Compensation Engagement

Some PAPs' entitlement options will include a choice between cash and in-kind compensation options where eligible, as well as the selection of various livelihood restoration options (land-based activities, non-land-based activities, etc.).

Although these options would have been explained to each PAP during the disclosure of compensation schedules (Section 4.3.3) the Project will conduct additional entitlement briefings²²² at village level to explain and discuss the entitlements to PAPs and their spouses where appropriate. Where eligible, PAPs will then be given the opportunity to make informed decisions regarding the compensation and livelihood restoration options they select. During these entitlement briefings, vulnerable PAPs will receive particular attention to ensure that they are able to attend the briefings and are aware of the support options that are available to them over and above compensation for losses.

11.4 Implementation

Compensation Agreements (Step 6)

Individual household compensation agreements will be drafted in English, and translated into Swahili where applicable. The agreements are legally binding documents that will clearly define all entitlements, contractual modalities and necessary commitments of all parties.

²²⁰ This falls under the provisions of Section 4 Part II of the Land Acquisition Act (Cap. 118 R.E., 2010) ("LAA").

²²¹ The GoT will undertake the necessary steps, in collaboration as appropriate with the Project, for the Notice of Intention to Acquire to be issued in accordance with the LAA. The Project shall provide necessary resources to assist the GoT in the delivery of the notices of intention to acquire in line with the LAA, including the approach for absent owners (Sec. 8(1) LAA).

²²² These activities will be completed in liaison with GOT and with the support of district, ward and village authorities.

Each compensation agreement will be based on the values and entitlements confirmed in the final approved Valuation Report and in the Entitlements Framework (Chapter 6).

Compensation agreements (customized to include the compensation options applicable to each PAP) will be presented to the PAPs. This engagement (which will be conducted in a manner sensitive to cultural nuances and literacy levels) will seek to achieve compensation agreements that are clearly understood, transparent and consensual in nature²²³.

Once agreement has been reached with the PAPs, followed by a review period of up to two weeks, the compensation agreements will be signed and witnessed. The compensation agreements will include a spousal consent (where appropriate). At the time of writing discussions are still underway between the GoT and the Project on the modalities and signing arrangements for the compensation agreements.

In the event that the engagement process consistently fails to gain agreement regarding compensation, the Project will submit to the GoT Acquiring Authority information on PAPs / land areas which the Project has been either: Unable to reach compensation agreement with (this will include where there are incomplete inheritance matters); or refused access to assets and / or land for surveying purposes; or the PAP is absent. The Project will keep the GoT informed throughout the land acquisition process of such cases and work with the GoT to resolve them. The GoT will proceed with subsequent steps for compulsory acquisition as laid down in the LAA (but with the provision that PAPs are offered the same entitlements disclosed in this RAP to meet both national legal requirements and IFS. The Project will establish an escrow style account arrangement to hold compensation funds for such PAPs until resolution of incomplete compensation claims and / or payments.

11.4.1 Payment of Compensation Relocation & Implementation of Livelihood Restoration & Assistance Programs (Step 7)

Payment of Compensation

When compensation is agreed²²⁴, as per the details contained in the final signed Compensation Agreements, PAPs will be paid their cash compensation (or, as applicable, arrange for relevant amounts to be placed in escrow) and be provided with other in-kind entitlements such as relocation and livelihood restoration assistance (where eligible).

Cash compensation due to PAPs will be paid on a rolling basis after the compensation agreements have been signed. Cash compensation payments will be deposited directly into

²²³ The Project will only offer rates agreed by the CV for the relevant District / Area / Zone. Rates will not be a subject of negotiation with PAPs. Negotiation will generally be limited to selection of compensation options by eligible PAPs (e.g. cash compensation or in-kind entitlement (where eligible)) and potentially livelihood restoration entitlement options.

²²⁴ Or the relevant arrangements following failure of the engagement process are effected by GoT at the Project's request, in coordination with the Project, and in all instances, in accordance with the LAA.

the bank account²²⁵ of the beneficiary and spouse (if married). All payments made will be recorded in an auditable format.

Where compensation payment is delayed longer than 6-month from approval of Valuation Reports by the Chief Valuer then interest will be applied as required under Tanzania law. Also, where compensation is delayed the additional entitlements under IFS will be reviewed to confirm the requirements of 'replacement cost' are met by compensation packages.

Replacement Land and Replacement Housing

Following selection of compensation options by PAPs and signing of the compensation agreements, it will be possible to make a more precise determination of land required for replacement housing and agriculture.

Options for suitable plots have already been discussed and continue to be researched by the Project in collaboration with district, ward and village authorities. The aim, is for most replacement land to be in the same village or ward as the land previously owned by PAPs (or as close as possible); thus, the replacement plots, where possible, will be Village Land under the jurisdiction of the same village, although right of occupancy will be transferred to the PAP.

The Project will support the process with the objective to secure the best available security of tenure as per Tanzanian legislation for PAPs with relevant documents.

The Project will be responsible for the preparation of replacement plots and construction of replacement houses according to house designs prepared by the RAP architect (See Chapter 7). The Project will be responsible for facilitating the registration (as relevant and possible under Tanzanian law) of replacement land and will pay all charges that are accrued from the process of acquiring the land and constructing replacement housing and ancillary structures.

Relocation and Transitional Support

Following the payment of cash compensation and the delivery of relevant in-kind entitlements (i.e. mainly associated with the provision of replacement houses), the Project will coordinate with the GoT to issue the PAPs with a notice to vacate.

Additional activities during this stage will include the provision for salvaging of materials by PAP and the demolition of existing structures as detailed in the final compensation agreements. An important consideration will be ensuring enough time is allowed for PAPs to prepare for salvaging activities and subsequent relocation.

Transitional support will also be provided to complement compensation payments to ensure that PAH's can meet their basic needs and maintain their standard of living once access to

²²⁵ For very small compensation payments, the Project is evaluating other payment methods for secure provision of such funds to PAPs. These would include PAPs whose total cash value of compensation of < T.Shs. 100,000. However, the minimum trigger amount for such 'very small compensation' payments is subject to ongoing analysis and discussion with potential banking partners

their land has been lost and until they have had opportunity to restore their livelihood to pre-project levels.

Any replacement farmland will be prepared and made available as soon as possible to these PAPs to restore livelihoods as outlined in the LRP (Chapter 8). Additional details on the transitional support to be offered to eligible PAPs to restore livelihoods are outlined in the LRP (Chapter 8).

Livelihood Restoration and Assistance Programs

Chapter 8 presents the LRP. During RAP implementation this activity will give effect to the additional entitlements related to livelihood restoration through:

- Engagement with PAPs to ensure they understand what implementation of their selected livelihood restoration options will involve;
- Refinement of livelihood restoration programs and support to PAPs;
- Discussions with regional and district officials, NGOs and CBOs, to understand existing development projects that may be suitable to support livelihood restoration;
- Liaison with regional and district technical staff to assist with co-ordination and integration with existing livelihood support initiatives, where applicable;
- Assessing locally based service providers who are able to provide training and post training support and monitoring of livelihood restoration initiatives (refer to Chapter 8 for additional detail on the appointment of service providers); and
- Mobilization of the necessary human, financial and material resources to implement livelihood restoration initiatives.

11.4.2 Granting of Rights (Step 8) and Leasing of Land (Step 9)

The State will undertake all necessary steps to grant to the relevant authority, the rights to the Project required land²²⁶. The relevant Authority will then provide a lease²²⁷ to the Project for the required duration. The arrangements for the lease are still under discussion between the Project and the GoT.

11.5 Implementation Roles and Responsibilities

To ensure the Project maintains ownership and accountability of the overall process, the RAP implementation activities, as detailed above, will be managed by the EACOP PPT, as well as the GoT (particularly ME, TPDC, TPA, MLHSD, TARURA, TANROADS, TANESCO, REA and Regional and District Authorities will provide strategic input and

²²⁶ The granted rights will comply with the principles set out in the IGA (and relevant other agreements in place at that time between the State and the PPT).

²²⁷ Lease will comply with the principles set out in the IGA (and relevant other agreements in place at that time between the State and the PPT).

support. The roles and responsibilities for the RAP Implementation phase are summarized in Table 11-1.

Table 11-1: Roles and Responsibilities for the RAP Implementation Phase

Activity	Project Company / PPT (Project) Role	Government of Tanzania Role
[Step 5] Gazettement of Public Purpose, and Conversion of Land to General Land.	<ul style="list-style-type: none"> Provide maps and information (including a list of affected villages) of required Project land per section. Review gazettement area and any orders and / or notices prior to publication in the Gazette. Provide timing to the GoT and input to the wording of notices of intention to acquire if possible. 	<ul style="list-style-type: none"> Prepares, issues and publishes necessary orders and / or notices in Gazette required under the LAA. Undertakes all necessary steps and actions to meet the provisions of the LAA, including for the gazettement and acquisition of land, and for the conversion of certain land (at timing agreed with Project) to General Land as agreed with the Project²²⁸.
[Step 6] Compensation Agreements		
Entitlements and Compensation Briefings.	<ul style="list-style-type: none"> Conduct additional entitlement briefings at village level to explain and discuss the entitlements to PAPs. 	<ul style="list-style-type: none"> Support provided by GoT in addition to district, ward and village authorities.
Drafting and Signing of Compensation Agreements.	<ul style="list-style-type: none"> Lead the engagement with PAPs and communities to reach compensation agreements. Signatories of Compensation Agreements under discussion with GoT. Determine cases where the GoT's further compulsory acquisition powers need to be engaged and facilitate process, where applicable. 	<ul style="list-style-type: none"> Signatories of compensation agreements under discussion with GoT. Provide support should the engagement process continuously fail to gain agreement over compensation.
[Step 7] Payment of Compensation, Relocation & Implementation of Livelihood Restoration & Assistance Programs		
Payment of Compensation	<ul style="list-style-type: none"> Payment of compensation. (The arrangements for payment of Tanzanian regulatory entitlements are a matter of discussion between the GoT and the Project). 	<ul style="list-style-type: none"> Acquiring Authority for land acquisition. (The arrangements for payment of Tanzanian regulatory entitlements are a matter of discussion between the GoT and the Project.) Oversight of compensation and relocation process.

²²⁸ This is expected to include, but not be limited to: all required approvals from village, ward, district, regional and national authorities; resolution of any related planning matters; necessary surveys and reports; and notices as prescribed under the legal framework and the publishing of these, as required, in the Government Gazette. Gazettement of the land for the public purpose and conversion of Village and Reserved Land to General Land is to occur simultaneously.

Activity	Project Company / PPT (Project) Role	Government of Tanzania Role
Construction of Replacement Housing.	<ul style="list-style-type: none"> Preparation of replacement plots for construction of replacement houses. Facilitating the registration of replacement land and payment of all charges that will accrue from the process of acquiring the land and constructing replacement housing. 	<ul style="list-style-type: none"> Support with formal land acquisition, transfer and registration as per Tanzanian legislation.
Relocation and Transitional Support.	<ul style="list-style-type: none"> Provide timing and agree modalities of giving PAPs notice to vacate. Provision of transitional support (where required). 	<ul style="list-style-type: none"> Prepares in agreement with the Project Co. / PPT, issues at the precise time requested by the Project Co. / PPT and publishes statutory notices to yield possession (vacate) to PAPs (and affected villages, as required under the LAA)²²⁹.
Implementation of Livelihood Restoration and Assistance Programs.	<ul style="list-style-type: none"> Refinement of livelihood restoration programs and support to PAPs. Discussions and liaison with regional and district officials & technical staff, NGOs and CBOs. Assess locally based service providers who are able to provide training and post training support. Mobilization of the necessary human, financial and material resources. 	<ul style="list-style-type: none"> Support and potential partnerships with District Agricultural Office. Project to liaise with regional and district official and technical staff.
[Step 8] Granting of Rights and [Step 9] Lease to Land.		<ul style="list-style-type: none"> The GoT will undertake all necessary steps to grant to the relevant authority a Granted Right of Occupancy on required land which comply with the principles set out in the IGA.
		<ul style="list-style-type: none"> The relevant authority to then provide a lease to the Project for the required duration which grants land rights to the Project which comply with the principles set out in the IGA (and relevant other agreements in place at that time between State and the PPT).

11.6 Stakeholder Engagement During RAP Implementation

This section broadly describes the stakeholder engagement activities that will take place during the land acquisition and RAP implementation phase following RAP disclosure.

The objectives of stakeholder engagement during this phase are to:

- Provide feedback to regional, district, ward and village government levels and gain insights into how implementation is progressing;

²²⁹The statutory Notice to Yield Possession may be issued as part of the Notice of Intention to Acquire under the LAA. The Project will work with the government to agree the modalities of giving notice to vacate to PAPs under the IFS.

- Provide feedback to, and gain insights from the LARWG;
- Introduce PAPs to the processes and activities planned to be undertaken as part of the RAP implementation to those affected;
- Explain and ensure that every individual affected household understands their compensation and resettlement options and agreements;
- Ensure that PAPs understand the household relocation process and associated timing, as relevant;
- Ensure that meetings and information are accessible, specifically for affected stakeholders;
- Ensure the identification and participation of vulnerable groups including vulnerable ethnic or minority groups in information disclosure and consultation activities; and
- Ensure that all resettlement activities proceed smoothly and in a way that minimizes and / or avoids difficulties for PAPs and PAHs.

Following the disclosure of the RAP, all RAP engagement activities will transition to management by the EACOP Project RAP implementation team, who will build on the structures and processes set up by the RAP planning consultant team during the RAP planning phase. During the transition, the EACOP Project RAP implementation team will:

- Undertake land acquisition and resettlement engagement to support implementation of the resettlement and livelihood restoration activities. This will align within the overarching EACOP Project Stakeholder Engagement Framework and Stakeholder Engagement Plan (as appropriate);
- Set up daily management structures and continue training and mentoring of office and field-based members of the EACOP Project RAP implementation team; and
- Develop any required additional management tools to provide quality assurance of engagement-related records including meeting notes, stakeholder records, commitments, concerns and grievances.

The stakeholder engagement execution plan for RAP implementation is summarized in Table 11-2. This aligns with the stakeholder engagement approach and activities during RAP planning.

In summary, during resettlement implementation, engagement will be required for:

- Entitlement briefings for each PAP with the support of district, ward and village authorities;
- Agreement and signing of compensation agreements;
- Payment of compensation processes;

- Implementation of livelihood restoration and assistance programs at regional, district, ward and village level (e.g. to ensure coordination and integration with existing livelihood support initiatives);
- Relocation activities such as serving notices to PAPs and communicating notice periods;
- Provision of an ongoing cycle of updates and feedback on implementation progress to affected stakeholders, including modifications to the RAP process, as needed; and
- Monitoring the process and outcomes of RAP implementation.

Vulnerable PAPs and PAHs will receive specific, targeted support to enable their equitable participation in engagement activities and ensure awareness of additional support options available (as outlined in Chapter 9).

Table 11-2: Stakeholder Engagement Execution Plan for RAP Implementation

Stakeholder Group	Task Description	Deliverables
Engagement with regional and district authorities.	Regular feedback and guidance meetings with regional and district authorities to: <ul style="list-style-type: none"> • Provide updates on activities completed; • Discuss upcoming activities; • Seek guidance on regulatory requirements; • Provide feedback on grievances received and resolved; and • Solicit feedback and adapt plans accordingly. 	Minutes of meetings. Attendance registers. Meeting invitations.
Engagement with the LARWG.	Regular feedback and guidance meetings with the LARWG to: <ul style="list-style-type: none"> • Provide updates on activities completed; • Discuss upcoming activities; • Seek guidance on regulatory requirements; • Provide feedback on grievances received and resolved; and • Solicit feedback and adapt plans accordingly. 	Minutes of meetings. Attendance registers. Meeting invitations.
Engagement with PAPs (incl. PAHs and PACs).	Engagement will include: <ul style="list-style-type: none"> • Disclosure of resettlement agreement information and notification to PAPs and PAHs regarding resettlement options; • Regular community meetings with PACs to disclose relevant information and provide guidance to PAPs on resettlement options as well as provide updates on the progress of the resettlement process; • Record options / preferences of PAPs / PAHs; • Notification to PAPs of key activities in relation to payment of compensation and commencement of the construction of replacement housing; • Accompanying PAPs to the site / s where replacement housing is being constructed (as per agreed schedule of visits); • One-on-one engagement with PAPs to support understanding of an agreement on compensation / support packages; • Management of complaints and grievances process; • Ongoing monitoring and evaluation related engagement with PAPs, RAP implementation partners and other related stakeholders; and • Discussions and activities related to livelihoods restoration. 	Notes / minutes of discussions / meetings. Notifications of meetings. Signed agreements.

12 IMPLEMENTATION BUDGET AND SCHEDULE

12.1 Budget Estimate

An estimated budget for the implementation of the Kagera RAP has been developed based on the displacement metrics reported in Chapter 6. Budgeting at this stage of the resettlement process is important to help the Project complete detailed planning and resourcing prior to the onset of implementation activities.

The main components of this budget are presented in Table 12-1 below. All cash compensation contained in the VRs and Compensation Schedules (see Chapters 4 and 6) has been included in the budget. In-kind and other entitlements (e.g. Replacement Housing and Livelihood Restoration) will also be monetized for budgeting purposes.

Table 12-1: Summary of RAP Implementation Budget Components

Budget Main Component	Summary Description
Land.	The cost of land is a function of the area of land to be acquired by the Project. For permanently acquired land, market rates as determined during professional valuation apply. These rates are dependent on location and on the category of land (residential land, bare farmland, community land, etc.). The budget uses the CV approved rates (see Chapter 6). When estimating the cost of land, allowance has been made for orphaned land that has been identified in the VRs. Transaction costs (10%) have been included in the cost of land as an additional entitlement under IFS.
Residential and Other Structures.	Owners of Project-affected occupied and complete residential dwellings will have a choice between cash compensation, and the provision of replacement structures. The RAP implementation budget has adopted a conservative approach – i.e., it has assumed that all PAPs will choose replacement housing rather than cash compensation. Replacement of adequate housing is required under the international standards, and costs for provision of ‘adequate housing’ have been included in the budget. Owners of ancillary structures will also be eligible for cash compensation for these affected structures, with this also included in the RAP implementation budget. The compensation cost of structures has been determined on the basis of replacement value (not including depreciation).
Crops and Economic Trees.	During asset valuation surveys all affected crops and economic trees have been recorded, valued, and owners of these are eligible for cash compensation which has been included in the budget. IFC PS5 “requires loss of assets to be compensated at replacement cost”. IFC PS5 defines replacement cost as the market value of the assets plus transaction costs. Market value is the value required to allow affected communities and persons to replace lost assets with assets of similar value. In order to meet this standard and provide for replacement cost for loss of crops and trees, the approved 2012 crop compensation values have been increased using compounded inflation rates from 2013 to the first half of 2018. The compounded or cumulative inflation rate for the years (2013-2018) is 45.44%.

Budget Main Component	Summary Description
Allowances.	<ul style="list-style-type: none"> • Disturbance Allowance: Physically and economically displaced households are eligible for a disturbance allowance, which is defined in the Valuation and Valuers Registration Act, 2018, Section 13 (this Act is also described as The Valuation and Valuers (General) Regulations, 2018); • Physically displaced persons are also eligible for the following allowances as defined under the regulations, which have been included in the budget: <ul style="list-style-type: none"> ○ Accommodation Allowance based on the rent that the affected property would command, multiplied by the number of months provided in the law – i.e. 36 months; and ○ Transport Allowance: i.e., the amount equivalent to transporting 12 tons either by rail / road for 20 kilometers from the point of displacement.
Graves and Ritual Sites.	<p>In terms of Tanzanian legislation, compensation for relocation of graves comprises two (2) components, which have been allocated within the budget:</p> <ul style="list-style-type: none"> • Compensation to relatives of the deceased for reasonable expenses associated with rituals involved in exhumation of graves; and • Costs involved in the removal, transportation, reinstatement and re-interment of the grave or dead body, as defined in the Graveyard Removal Act (No. 9 of 1969). <p>The budget includes the costs for moving the (165) affected graves in the Kagera Region and the compensation payments to relatives required under the legal framework.</p>
Livelihood Restoration & Transitional Support.	<p>The budget for livelihood restoration measures includes three (3) main components:</p> <ul style="list-style-type: none"> • Costs associated with, transitional support and / or food security measures to accommodate the physically and / or economically displaced individuals prior to replacement land and / or replacement housing being available. • Costs associated with individual, and household-level livelihood restoration measures: Budget based on the number of PAHs and PAPs multiplied by a standard amount per household that incorporates the cost of typical elements of livelihood restoration programs (agricultural improvement training, food packages, seed capital for alternative enterprises, skills training, money management training, etc.). This standard cost per household will consider normal estimates from service providers typically involved in the provision of such programs. Livelihood restoration programs are scaled in terms of the intensity of livelihood impacts that affected households will experience; where a household will lose only a small proportion of its land, the impact on the livelihoods of its members is unlikely to be significant; and • Costs associated with community or village-level livelihood restoration measures: Budget allowance will be based on the number of villages affected by the Project and impacts on communal land etc.
Vulnerable Persons and Households.	<p>Additional assistance required by vulnerable persons or households will be assessed on a case-by-case basis during resettlement implementation, building from a list of potentially vulnerable PAHs developed during the RAP planning phase. An allowance will be made in the RAP implementation budget for this additional assistance and will be monitored closely.</p>
RAP Implementation.	<p>Implementation resources will be required to undertake RAP and LRP implementation activities. EACOP has committed to maximizing national content in the composition of these teams. Budget for the implementation resources is based on the estimated level of effort associated with each task (in terms of man-days) multiplied by the average daily cost of the resources required to perform those tasks. The level of effort involved in each task is in turn based on the number of affected households and villages that the implementation will need to cover.</p>

It should be noted that at this stage the budget is indicative and will require further refinement following the finalization of the following activities:

- Signing of household compensation agreements, which will finalize the following details:
 - Decision relating to compensation options by the PAP (e.g. cash compensation or replacement housing); and
 - Identification, allocation and securing of replacement housing, and agricultural land.
- Procurement of replacement housing building contractor, and updating of construction costs; and
- Final identification of livelihood restoration partners and initiation of activities and programs.

12.2 Indicative RAP Implementation Schedule

Tables 12-2 and 12-3 provide an indicative RAP development and implementation schedule. It is important to note, as detailed in Table 12-2, that following finalization of the RAP, there is a GoT review period followed by update of the RAP, and public disclosure.

During further community sensitization meetings, PAP entitlement briefings, and ongoing Project CLO engagements, updates will be provided to PAPs and relevant stakeholders on the RAP implementation schedule.

It is anticipated that the completion of implementation activities in the Kagera Region will take approximately 21 months. It is important to note that several factors can significantly delay the implementation process, hence proactive management is necessary. For example, proceeding with implementation is dependent on GoT processes and approvals, such as approval of the Valuation Reports and issuing of relevant notices required under the Land Acquisition Act.

In addition to the key RAP implementation activities listed in Table 12-3, there are a number of activities listed that will continue beyond the 21-month implementation period. These include but are not limited to:

- Stakeholder Engagement;
- Livelihood Restoration and Assistance Programs; and
- Monitoring and Evaluation Programs.

Table 12-2: High-level Schedule for RAP Development and Disclosure

RAP Planning	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20																
Development of the Resettlement Policy Framework																																											
Step 1: Resettlement Policy Framework																																											
Finalization and disclosure of the RPF									<i>(RPF will remain disclosed on the EACOP website)</i>																																		
Step 2: Detailed Surveys and Valuation																																											
Determination of base compensation rates																																											
Confirmation of land areas for surveys																																											
Preparation and planning for surveys																																											
Announcement of surveys and cut-off date																																											
Surveys and valuations (including additional data collection)																																											
Validation of valuation schedules																																											
Preparation of Valuation Reports & Compensation Schedules																																											
Disclosure of individual Compensation Schedules to PAPs																																											
Step 3: Final Valuation Reports																																											
Compilation of final Valuation Reports and Compensation Schedules																																											
Sign off (Village/Ward/District/DC Level)																																											
Submission of Valuation Reports and Compensation Schedules to Chief Valuer																																											
Step 4: RAP and LRP Development																																											
Development of socio-economic baseline																																											
Replacement land and resettlement housing (identification and concept)																																											
Preparation of Draft RAP																																											
Submission of Draft RAP to GoT for 30 day comment period																																											
Finalisation of RAP (including final displacement metrics from VR)																																											
Disclosure of RAP																																											

Table 12-3: High-level Schedule for RAP Implementation

RAP Implementation	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21
Step 5: Public Purpose and Conversion to General Land (Government of Tanzania)																					
Necessary Documentation by GoT for Gazettement & Notice of Intention to Acquire	█	█	█																		
Conversion of Village Land & Reserved Land to General Land (Inc. required Notices)				█	█	█	█	█	█	█	█										
Step 6: Compensation Agreements																					
Serving Notice of Intention to Acquire Land		█	█	█																	
Preparation of Entitlement Briefings and Compensation Agreements	█	█	█	█																	
PAP Entitlement Briefings			█	█	█	█	█	█													
PAP Compensation Agreements					█	█	█	█	█												
Step 7: Payment of Compensation, Relocation & Implementation of LRP																					
Payment of compensation						█	█	█	█	█											
Notice to Vacate/Yield Possession						█	█	█	█	█	█										
Secure and prepare replacement land (agricultural and construction purposes)				█	█	█	█	█	█	█	█										
Procurement of house construction contractors	█	█	█	█	█	█															
Construction of replacement housing							█	█	█	█	█	█	█	█	█	█					
Relocation - Economically Displaced PAPs (and transitional support where necessary)									█	█	█	█	█	█	█	█					
Relocation - Physically Displaced PAPs (and transitional support where necessary)															█	█	█	█			
Livelihood Restoration and Assistance Programs:																					
Engagement with PAPs and refinement of LRP						█	█	█													
Engagement with district officials and potential service providers						█	█	█													
Mobilization of human, financial and material resources						█	█	█													
Operationalize Livelihood Restoration Programs (ongoing for 2-3 years until livelihoods restored)									█	█	█	█	█	█	█	█	█	█	█	█	█
Step 8: Rights Granted to GoT																					
Right of occupancy/rights to GoT															█	█	█	█	█		
Step 9: Lease for Land to Project																					
Lease																				█	█

13 MONITORING AND EVALUATION

13.1 Introduction

The Project will finalize a Monitoring and Evaluation (M&E) and reporting system prior to the implementation of the RAP. This will include both internal, external and participatory monitoring and reporting processes to ensure complete and objective information is provided. The RAP M&E and reporting process will be integrated into a larger project-wide environmental and social management process that will collectively inform the management of project related impacts.

The performance monitoring indicators will be selected to measure inputs, outputs, and outcomes for resettlement activities, and will aim to provide feedback to the Project as well as to relevant stakeholders on the RAP implementation process. The whole M&E process will be linked to the household level socio-economic and asset surveys undertaken for the development of the RAP. The information from these surveys will provide the baseline and indicators against which to monitor and evaluate progress, therefore the involvement of the displaced persons in the process will be vital.

This process will also confirm the levels of success of livelihood restoration measures and for that reason M&E of the impacts of resettlement will continue for a reasonable period after all resettlement and related development activities have been completed.

The section below sets out the monitoring and evaluation framework that will be used to set up the resettlement M&E procedures and includes:

- M&E process, objectives and purpose;
- M&E during the construction phase;
- Types of M&E including:
 - Process M&E;
 - Compliance M&E;
 - Completion audit;
 - Ex-post evaluation; and
- Reporting.

13.2 Monitoring and Evaluation Process

The key objectives of the M&E process include:

- Confirming the legal compliance of the RAP implementation;
- Verifying that the implementation of livelihood restoration programs are adequate and appropriate for re-establishing prior levels of livelihoods;

- Ensuring the ongoing management and redress of resettlement related grievances;
- Identify problems and successes early to allow timely corrective actions;
- Ensuring that correct procedures are followed; and
- Assess the quality, progress and impact of RAP implementation.

In particular, the program will track progress with:

- Physical resettlement;
- Compensation payments;
- Livelihood restoration; and
- Status of vulnerable households.

13.2.1 Purpose of Monitoring

The purposes of resettlement monitoring are to verify that:

- Actions and commitments described in the RAP are implemented fully and on time;
- Eligible people receive their full compensation within agreed timeframes;
- PAPs who are physically displaced and / or require specific transitional support, especially where replacement housing and / or land is not available at the point of displacement, will be individually monitored until settled into their replacement house (where this option is selected). This will include the monitoring of their restoration of livelihoods;
- Commitment to livelihood restoration / improvement is recognized, monitored, and documented;
- RAP actions and compensation measures are effective in enhancing or restoring livelihoods (both in the form of living standards and income levels);
- Every effort is made to ensure that PAPs identified as vulnerable can attend meetings or be consulted separately if required and provided with additional assistance (as per their vulnerability) in re-establishing their livelihoods;
- Community-level impacts are recognized, and mitigation measures are implemented;
- Changes in RAP procedures are made during implementation (so that compensation measures are effective in restoring livelihoods);
- Construction activities are closely followed and all additional land acquisition, crop compensation and construction damage issues are identified and addressed; and
- Complaints and grievances lodged by PAPs are followed-up and appropriate corrective actions are implemented.

13.2.2 Purpose of Evaluation

The purpose of evaluation programs, in contrast to monitoring, is to provide focused, independent assessment, of the overall success of the land acquisition, at regular intervals. The systematic and objective evaluation of the RAP implementation and results will be guided by the five Organization for Economic Cooperation and Development (OECD) Evaluation Criteria summarized in Table 13-1.

Table 13-1: OECD Evaluation Criteria

Relevance	Are we doing the right thing? How important is the relevance or significance of the intervention regarding local and national requirements and priorities?
Efficiency	Are the objectives being achieved economically by the development intervention? How big is the efficiency or utilization ratio of the resources used?
Effectiveness	Are the objectives of development interventions being achieved? How big is the effectiveness or impact of the project compared to the objectives planned?
Impact	Does the development intervention contribute to reaching the overall objective? What is the impact or effect of the intervention in proportion to the overall situation of the target group or those affected?
Sustainability	Are the positive effects or impacts sustainable? How is the sustainability or permanence of the intervention and its effects to be assessed?

In line with the above guiding criteria, and further elaborated in the RAP Evaluation Framework in Table 13-2, the proposed evaluation programs will include the following:

- Evaluation of monitoring results, and actions are taken as a result;
- Determination of compliance with the VPP / LRP / RAP, Company policies, Tanzanian requirements, and international standards;
- Evaluation of emergent, mid and long-term development indicators, including the key performance indicators defined as part of the monitoring program;
- Identification of any unforeseen, or inadequately addressed risks or problems; and
- Recommendations designed to correct identified problems and / or enhance the achievement of resettlement goals and objectives.

Ongoing meetings of the LARWG will serve as opportunities to collectively evaluate progress towards achievement of LRP / RAP objectives. An annual external evaluation may also be conducted of the livelihood restoration and resettlement programs.

A completion audit, conducted approximately three (3) years after the initiation of the LRP, will constitute the final step in the evaluation program.

A system for data collection is to be established, this will include resources required to carry out the monitoring. The data collected is to be entered into a database, which will allow for a comparison between the monitoring events.

The Project will be responsible for providing the human resources, training, funds and facilities for implementing the monitoring program, including any external evaluations.

Monitoring programs will typically be designed and implemented by the RAP implementation team in collaboration with those affected, and with other stakeholders.

The monitoring activities will be considered to be complete when all construction activities are completed, and the adverse impacts of resettlement have been addressed in a manner consistent with the objectives stated in the RAP and resulting resettlement agreements.

Table 13-2: RAP Implementation Evaluation Framework

Question area	Learning Questions	Approach	Data collection
Relevance	Are the LRP outputs relevant and well-conceived in the context of IFC PS5?	This question will be answered through a combination of activities including focus group discussions with PAPs as well as specific questions on relevance included in the monitoring of the activities of the RAP implementation team.	Internal ME; Participatory Inquiry.
Efficiency	Have the outputs and related activities been implemented in a timely and cost-effective manner? Have resources been utilized cost effectively? Do the quantitative and qualitative results justify resources used?	Administrative data will be collected for all RAP activities, including contracts, travel, logistics, etc. to quantify the numbers of organizations, institutions and people reached and at what cost. Records will be kept of those attending and completing training provided. Overall costs per individual for changes in the outputs and related activities will be disaggregated and tracked.	Internal ME. External ME.
Effectiveness	What changes in resettlement behavior, relationships or activities of the key service providers and PAPs is the project generating? To what extent have the RAP outputs been achieved and are contributing to these changes? What barriers and constraints have affected the outputs? What can be learned from this to date and what improvements could be made and by whom?	These questions will be answered through a combination of guided key informant interviews and focus group discussions on significant changes. These will be administered with all PAPs and with representatives of the host community, and key stakeholders at the district level. They will provide data on overall changes in the livelihood and income generation capacities and behaviors related to the objectives of IFC PS5 and guided by the evaluation and monitoring framework output indicators. They will also enable identification of unexpected consequences that can be attributed directly or indirectly to the resettlement. The data collected and analyzed will be compiled into quarterly progress reports that are reviewed and reflected upon to inform any adjustments in the RAP implementation approach. Direct contributions to gender equity and women's empowerment will also be considered in answering these questions.	Internal ME, External ME Participatory Inquiry.

Question area	Learning Questions	Approach	Data collection
Impact	<p>In what ways have resettlement and livelihood interventions and investments lead to sustainable livelihood restoration?</p> <p>To what degree have community development activities lead to improvement in the welfare of project-affected persons, households and communities?</p> <p>Are there any broader positive or negative impacts on the resettlement communities, if so, what are they?</p> <p>Is there collaboration on issues related to land access?</p>	<p>The answers to these questions will involve a summation of the RAP approach, the relevance, efficiency and effectiveness questions about the outputs. These will also provide the measures for the output indicators.</p> <p>The RAP will be evaluated and monitored according to the output areas, through review of internal progress reports, follow up focus group discussion and key informant interviews to assess changes and outcomes.</p> <p>These questions will also frame the completion audit to assess the RAP impact.</p>	External ME
Sustainability	<p>To what extent is the intervention contributing to improved livelihoods, assets enhancement and income generation capacity of PAPs in the context of integration in the resettlement community?</p>	<p>Answers will come from a combination of RAP evaluation, project level outcome and output monitoring by the RAP implementation team and external consultants. The PAPs will be included in all stages of data collection and feedback provision and data will be disaggregated to reflect various groups including women, children, and youth.</p>	External ME

13.2.3 Monitoring and Evaluation During Construction

Resettlement M&E is generally not carried out in isolation from the overall Environmental and Social M&E due to the range of related and / or integrated impacts resulting from the construction phase that could have a bearing on livelihoods.

Outcomes of monitoring related to impacts from construction e.g. dust, noise, vibration, water quality, health, community safety, and security will feed into a broader overall environmental and social monitoring system that will also inform the RAP process and the possible impacts on ongoing livelihoods and on livelihood restoration.

It is also possible that additional land may be required once construction activities start. If this additional land is a permanent project requirement then additional land acquisition will be required. An integrated management process will ensure that additional permanent land acquisition is completed in accordance with the principles outlined in the RAP and RPF. Land required for temporary use during construction will be accessed according the requirements of the Project's Land Management Plan.

13.2.4 Types of Monitoring and Evaluation

Four (4) types of M&E will be conducted as part of the RAP implementation, consisting of:

- Process monitoring and evaluation;
- Compliance monitoring and evaluation;
- Completion audit; and
- Ex-post evaluation.

Process Monitoring

This is an internal monitoring activity that tracks the impacts of the resettlement implementation process on the PAPs, PAHs and host communities. It ensures efficient resettlement implementation management through:

- Identification and timeous implementation of corrective actions;
- Providing an opportunity for those involved in the programs to take stock by evaluating the work honestly;
- Formulating improvements; and
- Allowing those involved in the implementation who have first-hand experience and are often acutely aware of the weaknesses.

This M&E will start when land acquisition notices are distributed and continue until the completion of the Project construction phase.

Achieved progress will be measured against planned deliverables and the quality of services and construction will be reviewed. A quarterly report by the RAP implementation team will be distributed among the relevant teams for responsible individuals and / or groups to take appropriate actions (including corrective actions and / or improvements) where relevant.

As a minimum, the following components will be monitored:

- Community consultations implemented and ongoing;
- Grievance procedures in place and functioning (claims addressed);
- Transfer of entitlements and compensation payments disbursed;
- Transitional support program monitoring;
- PAPs identified as vulnerable;
- RAP implemented in line with RAP principles, procedures and timeframes;
- RAP funding for livelihood restoration is implemented fairly and transparently;
- Progress with income restoration and development activities; and
- Monitoring and evaluation reports submitted.

Indicators associated with the process monitoring are set out in Table 13-3.

A monitoring plan will be established by the RAP implementation team who will refine relevant elements in the RAP.

Table 13-3: Monitoring Matrix

Component Activity	Indicators	Information Source	Monitoring	Frequency
Physical Resettlement	<ul style="list-style-type: none"> • Number of households physically resettled including: <ul style="list-style-type: none"> - resettled to replacement houses (where selected); - resettled who selected cash compensation. 	Implementation management records generated by the Project and / or RAP implementing agent.	Process monitoring. Compliance monitoring. Completion audit.	Monthly for process monitoring, bi-annual for compliance monitoring and once off for completion audit.
Economic Resettlement	<ul style="list-style-type: none"> • Number of households economically resettled. 			
Compensation	<ul style="list-style-type: none"> • Number of PAPs to whom the compensation packages have been disclosed; • Number of households that have signed the compensation agreement; • Number of households that have received their cash compensation payments and other entitlements; • Number of households allocated replacement houses if applicable. 			
	<ul style="list-style-type: none"> • Compensation has been delivered to all as per entitlements and can be demonstrated to have achieved replacement; • Has community infrastructure been replaced? 	PAP specific qualitative and quantitative compared to baseline information and GIS records, VRs, direct site observation, photos, interviews.	Compliance monitoring. Completion audit.	Annual for compliance monitoring and once off for completion audit.

Component Activity	Indicators	Information Source	Monitoring	Frequency
Demographic Changes to PAPs esp. impacted households	<ul style="list-style-type: none"> Household demographic profile; Educational status of household members; Health status of household members; Food security; Asset ownership; Access to services; Land holding; Income and expenditure. 	Baseline survey.	Monitoring survey conducted by compliance monitor.	Annual compliance monitoring.
Replacement land and plots	<ul style="list-style-type: none"> Number of households allocated replacement land/supported to secure replacement land; Number of new plots of land legally transferred and registered (as appropriate) and documents provided to PAP; 	Implementation management records generated by the Project and / or RAP implementing agent.	Process monitoring. Compliance monitoring. Completion audit.	Quarterly for process monitoring, bi-annual for compliance monitoring and once off for completion audit.
Livelihood Restoration	<ul style="list-style-type: none"> Number of households enrolled for the livelihood restoration program; Status on ongoing income restoration activities; Food security of PAPs from handover to 6-months. 	PAP specific qualitative and quantitative compared to baseline information and GIS records, direct site observation, photos, interviews.	Compliance monitoring. Completion audit.	Annual for compliance monitoring and once off for completion audit.
	<ul style="list-style-type: none"> Have livelihoods been restored? 			
Vulnerability	<ul style="list-style-type: none"> Number of vulnerable households supported during the transition period; Type of support given to vulnerable households. 	Implementation of management records generated by the Project and / or RAP implementing agent.	Process monitoring. Compliance monitoring. Completion audit.	Monthly for process monitoring, bi-annual for compliance monitoring and once off for completion audit.
	<ul style="list-style-type: none"> Evaluation of assistance given to vulnerable categories. 	PAP specific qualitative and quantitative compared to baseline information direct site observation, photos, and interviews.	Compliance monitoring. Completion audit.	Annual for compliance monitoring and once off for completion audit.

Component Activity	Indicators	Information Source	Monitoring	Frequency
Grievances.	<ul style="list-style-type: none"> Number of grievances received; Number of grievances resolved; Number of grievances pending; Number of Project grievances forwarded to the Court; Number of Project grievances resolved at the District Land and Housing Tribunal. 	Implementation of management records generated by the Project and / or RAP. Implementing agent.	Process monitoring. Compliance monitoring. Completion audit.	Monthly for process monitoring, bi- annual for compliance monitoring and once off for completion audit.
RAP Completion Schedule.	<ul style="list-style-type: none"> RAP entitlement delivered in a timely fashion to works contractor and to budget. 	Implementation management records.	Process monitoring.	Monthly for process monitoring.
Data Management.	<ul style="list-style-type: none"> Use of data and logical storage; Accessibility of files and security; Completeness of records. 	The Project and / or RAP. Implementing agent records, analysis and interviews – generated by compliance monitoring.	Compliance monitoring. Completion audit.	Annually for compliance monitoring and once off for completion audit.
Lessons Learned.	<ul style="list-style-type: none"> Overview of lessons learned. 	Analysis and interviews – generated by compliance monitoring and completion audit.	Compliance monitoring. Completion audit.	Annual for compliance monitoring and once off for completion audit.

Compliance Monitoring

This type of monitoring is aimed at establishing whether resettlement implementation is meeting the key objectives as defined in the RAPs / LRPs. It will be based on both:

- Quantitative monitoring in the form of follow up socio-economic surveys to compare changes in household characteristics relative to baseline conditions (reported in Chapter 5); and
- Qualitative or participative monitoring involving consultation with stakeholders to elicit their views and inputs.

Compliance monitoring will be ongoing during RAP implementation and will:

- Provide the Project with an assessment of socio-economic and other impacts arising from the resettlement process;
- Determine the impact of, and responses to, livelihood restoration activities;
- Monitor the adaptability of households, vulnerable households; vulnerable ethnic groups; and
- Identify adjustments in the implementation of the RAP, and the need for corrective action plans.

Tasks to be undertaken will include:

-
- Review of the RAP, overall Environmental and Social Management Plan, and other project related documents that are relevant for the monitoring, including internal monitoring reports and addenda to overall Environmental and Social Impact Assessments developed for the Project;
 - Review of the Grievance Register and actions taken in response to grievances;
 - Reviewing compliance at regular intervals during the implementation process;
 - Detailed discussions with Project personnel, including the implementation team, social investment team, stakeholder engagement team, and contractors;
 - Consultations with all households, and eventually a stratified sample, of households who were resettled to confirm the ability of the households to restore their livelihoods following the resettlement;
 - Confirmation that PAPs received due compensation in line with the entitlement framework;
 - Consultations with a sample of people who have registered grievances;
 - Discussions (in the form of key informant interviews or focus group discussions) with district, ward, and village leaders; and
 - Discussions with any civil society groups who are involved in livelihood restoration activities, or who have established or presented themselves during the implementation process.

Compliance monitoring shall be undertaken quarterly during implementation and for two (2) years following resettlement, after which it will be undertaken bi-annually, with key compliance audits to be implemented at the five (5) and ten (10) year post-implementation marks. Quantitative surveys should be a sample sufficient to achieve at least a level of 90% confidence with a 10% margin of error.

Specific engagement activities to be undertaken as part of ongoing qualitative impact and compliance monitoring are outlined in Table 13-4.

Table 13-4: Stakeholder Engagement as Part of Monitoring and Evaluation during Resettlement Implementation

No	Tasks	Stakeholder Engagement Activities	Stakeholders	Medium
1.	Monitoring performance of RAP implementation ²³⁰ .	<ul style="list-style-type: none"> • Provide periodic feedback using a structured report to authorities; and • Develop monitoring database (this will form part of the social performance monitoring carried over from the construction phase). 	<ul style="list-style-type: none"> • CLOs; • PAPs; • PACs; • Village and ward councils; and • NGOs and CBOs. 	<ul style="list-style-type: none"> • Regular village-level meetings to ensure that the information provided is considered as part of the monitoring process; and • Monitoring database to track progress against set criteria and objectives.
2.	Monitor vulnerable groups' ability to adapt to their new environment ²³¹ .	<ul style="list-style-type: none"> • Establish and manage feedback structures. 	<ul style="list-style-type: none"> • Village and ward councils; and • Vulnerable groups. 	<ul style="list-style-type: none"> • Focus group meetings; • CLOs who will return periodically to vulnerable households to determine how well they are able to re-establish themselves; • Suggestion boxes; • Grievance records; and • Capacity building initiatives.
3.	Ongoing consultation with resettled households and host communities (monitoring period to be determined by Project).	<ul style="list-style-type: none"> • Develop a schedule for setting up regular meetings; • Determine important aspects to discuss with PACs, NGOs, etc. based on trends observed in the grievances received; and • Develop printed materials and reports for distribution that provide updates on post-implementation RAP activities. 	<ul style="list-style-type: none"> • PACs; • PAPs; • Regional and district authorities; and • Relevant NGOs and CBOs. 	<ul style="list-style-type: none"> • Focus group meetings; • Posters / notice boards; • Pamphlets; • CLOs; and • Grievance records.

Completion Audit

A completion audit will be conducted, by an independent third party to verify that the RAP implementation has met the necessary standards and restored or improved the livelihoods of the PAPs. The completion audit will assess implementation against the criteria developed in the M&E framework, previous M&E reporting and the original socio-economic baseline. The key objectives of the completion audit are:

²³⁰ Monitoring during this phase will be guided by the grievance mechanism, suggestion boxes and the village leadership who will be able to provide information on how PACs and PAPs experience the process.

²³¹ The IFC provides guidelines for monitoring vulnerable groups, which include identifying key individuals and groups within the vulnerable persons group, ensuring rightful representation and creating a safe environment for discussions to take place.

- Assess the effectiveness of measures to avoid and minimize displacement impacts by comparing actual project impacts on land and people versus those documented in the RAP;
- Verify that all entitlements and commitments described in the RAP have been delivered;
- Determine whether RAP measures have been effective in restoring or enhancing PAP's living standards and livelihood;
- Check on any systemic grievances that may have been left outstanding; and
- Identify any corrective actions necessary to achieve completion of RAP commitments.

The timing of the completion audit will largely be guided by several factors, as described below, however it is anticipated to be three (3) years after the initiation of the LRP:

- PAP must have been relocated to their new location (physical displacement) and be fully established;
- Agricultural activities on replacement land must have been reinstated. (It can typically take at least three seasons to reach previously achieved yields); and
- Longer observation periods between the impact and completion audit can eliminate the effect of natural fluctuations such as drought.

Indicators to be evaluated will include (but are not limited to):

- Changes in livelihood strategies and sources of income;
- Changes in status of vulnerable households (adaptability);
- Changes in agricultural yield / produce (quantity / quality) and income from farming;
- Changes in small business activities / economic activities other than agriculture;
- Changes in household income and expenditure patterns;
- Changes in household structure (size and composition);
- Changes in health patterns / incidence of diseases;
- Community cohesion / social stability (including for resettlement host communities); and
- Management / maintenance of replacement houses and community facilities.

The completion audit will also set out the terms of reference for the ex-post evaluation.

Ex-post Evaluation / Post-Project Evaluation

An ex-post evaluation is generally conducted three (3²³²) years after the Project completion with the emphasis on reviewing the effectiveness and sustainability of the project by assessing the long-term impact that resettlement has had on PAPs and host communities, and whether compensation and livelihood restoration initiatives achieved the intended benefits in a sustainable manner.

This evaluation also aims at deriving lessons learned and recommendations to improve the project and to help plan and implement more effective and efficient projects.

The terms of reference for the ex-post evaluation will be determined by the completion audit team in conjunction with the Project, and if deemed necessary, in consultation with key additional stakeholders. Issues and associated indicators to be examined will be determined by the results of the completion audit.

The ex-post evaluation will be undertaken by a qualified independent party.

13.3 Reporting

Monitoring reports will be prepared and are likely to include, but not be limited to, (per monitoring type):

- **Process monitoring:** Monthly internal reports on project progress and issues. These reports will be for project management and technical team use and will be accompanied by any suggested resolutions and mitigation measures, to pre-empt larger issues. As part of ongoing monitoring relevant feedback will be provided to PAPs e.g. via the EACOP CLOs.
- **Compliance monitoring:** An independent monitor will review the performance of the RAP implementation bi-annually for up to two (2) years following resettlement, after which it should be undertaken at least annually, with a key compliance audit to be done after three (3) years. As part of ongoing monitoring, relevant feedback will be provided to PAPs e.g. via the EACOP CLOs; and monitoring results required for any regulatory purposes will be provided to the relevant government authorities.
- **Completion audit:** This will be completed post-implementation (approximately three (3) years after relocation of PAPs). A suitably experienced, independent third party will conduct this audit. Once the completion audit has been concluded, and any corrective actions arising therefrom undertaken, the resettlement program shall be deemed complete. At this point, the Project will end its resettlement monitoring program, but may decide to undertake a post-project evaluation.
- **Ex-post evaluation (or post-project evaluation):** A third-party audit to be completed approximately three (3) years following the Completion Audit. The

²³² The ex-post evaluation timing will be determined by the completion audit.

necessity and scope of the post-project evaluation will be determined in consultation with the relevant project team and stakeholders.

In terms of ongoing monitoring, the project team will arrange for all necessary provisions to assure stakeholder engagement during the monitoring phase. Thereby, the Project will endeavor to involve independent third parties or to facilitate the community to participate in monitoring, where practical and acceptable by the communities concerned.

In terms of reporting, the Project will establish regular communication and reporting channels back to the communities and individuals impacted and concerned, whether through non-technical summaries of progress updates, engagement activities, public meetings, or targeted issue-based hearings.

Appendix A

RAP Survey Forms

Part A: Data Collection Information

- 1 PAP Identification (property identifier):
- 2 Date:
- 3 Village:
- 4 Ward:
- 5 Full name of PAP (land owner/user):
- 6 Mobile number:
- 7 Full name of spouse:
- 8 Mobile number:
- 9 If not the landowner, provide full name of the landowner/community/entity:

Part B: Absenteeism and Refusals

- 10 If PAP refuses to participate in land adjudication (recording property boundary), provide reason?
- 11 In case the PAP is absent schedule an alternate date for adjudication?
- 12 If PAP refuses to participate in boundary demarcation on basis of principle, will mediation be possible? Y/N
- 13 If yes, provide date for mediation?

- 14 Was mediation successful? Y/N
- 15 If mediation is unsuccessful, describe the reason why?
- 16 If mediation is unsuccessful:
 - (a) Dates of official notice to compulsory acquire land:
 - (b) Photographic record of notice:
 - (c) Dates of the first, second and third opportunity to reconsider whether compulsory process needs to be followed:

Part C: Land Details

- 17 Directly affected area (size of the land inside the delineated area, in acres):
- 18 Will the portion/s of the farm outside the delineated area be orphaned? Y/N (Based on outcome of orphan land criteria)
- 19 If yes, total size of the orphan land (acres):
- 20 Total size of the land including orphaned land (acres):
- 21 Land tenure on affected property:
- 22 Land uses practiced by the PAP on property:

Part D: Sketch of surveyed land and neighboring properties

#	Names	Signature
1		
2		
3		
4		
5		

Part E: Identification of other structures and/or PAPs dependent on affected property (assigning numbers to be used in valuation & socio-economic survey)

23	Description of assets on property	24	Asset Ownership (Landowning or non-landowning)	25	PAP number (issue new number for non-landowning land user)	26	Asset number / GPS Location	27	Name of non-landowning PAPs	28	Contact details	29	Tenure status

Part F: Declaration and Acknowledgement of PAPs and Neighbors

Land Owner Declaration:

I, and my spouse hereby confirm that the boundaries of my land affected have been well captured, we have visually seen the extents of the portion affected by the project and we have no reservations to the survey exercise that has been undertaken..

Signature:

Date:

Certificate of Attestation:

I, of do hereby confirm that I have duly explained to the said all the information contained in this form in dialect / language that he / she / they understand and that he / she / they fully understood all the information contained in this form before he / she / they signed or made his / her / their thumb mar.

Signature:

Date:

Acknowledgement and Signature:

I agree with the survey of the contractor and hereby sign as evidence that I was present during the survey exercise.

Full Name of Land Owner:

Signature or Right Thumb Print

Full Name of Spouse:

Signature or Right Thumb Print

Full Name of Land User (where the land owner is not the current land user):

Signature or Right Thumb Print

Full Name of Neighbour 1:

Signature or Right Thumb Print

Full Name of Neighbour 2:

Signature or Right Thumb Print

Full Name of authorised land officer:

Signature:

Full Name of Surveyor:

Signature:

Ward

Lusanga	1
Misima.....	2
Kijungu.....	3
Partimbo.....	4
Suruke.....	5
Msisi.....	6
Naga	7
Igusule	8
Bukombe	9
Bukome.....	10
Kasharunga.....	11
Kyaka	12
Saunyi	13
Njoro	14
Other (specify).....	15

Village

Momboleyo	
Misima.....	1
Gita	2
Kwavijana.....	3
Ilala	4
Mwabib.....	5
Busonge.....	6
Bumkombe town.....	7
Bukome.....	8
Runazi.....	9
Bulifani	10
Kushaba.....	11
Bulyang'ombe.....	12
Mnyemfu	13
Other (specify).....	14

Refusal reason

Absence of property and/or asset owner	1
Need to consult with other family members or third-parties	2
In-principle refusal to participate in Project processes	3

Land tenure and ownership

Customary land tenure un-registered	1
Customary land tenure registered	2
Leasehold/Renting.....	3
Freehold based on agreement of use with landowner	4
Freehold no agreement with landowner	5
Communal land	6
No tenure - Public land	7

Land use

Residential	1
Grazing.....	2
Agriculture	3
Fallow.....	4
Vacant.....	5
Business.....	6
Public	7

Asset

Multifunctional residential used less than 6 months a year	1
Multifunctional residential used more than 6 months a year	1
Sleeping only.....	2
Kitchen	3
Toilet	4
Shower	5
Business only	6
Recreation / meeting.....	8
Grain storage.....	9
Livestock kraal.....	10
Poultry coop	11
Grazing area.....	12
Crops	13
Grave	14
Cultural site	15
Other (specify).....	16

Part A: Data Collection Information

- 1 PAP Identification/ Valuation Number:
- 2 Date:
- 3 Ward:
- 4 Village:
- 5 Full name of asset owner:
- 6 Contact number:
- 7 Full name of spouse:
- 8 Contact number:

Part B: Absenteeism and Refusals

- 9 PAP refuses to participate in Valuation. Provide reason for refusal
- 10 In case the PAP is absent or requires time to consult with facility, provide alternate date for valuation?
- 11 If PAP refuses to participate in valuation on basis of principle, will mediation possible? Y/N
- 12 If yes, provide date for mediation?
- 13 Was mediation successful? Y/N
- 14 If mediation is unsuccessful, describe the reason why?

- 15 Is inspection/valuation of property possible without consent of PAP (e.g. can it be done remotely without physical access to land)? Y/N
- 16 If inspection/valuation is not possible without consent and/or physical access:
 - (a) Date of official notice to acquire land through compulsory process:
 - (b) Photographic record of notice:
 - (c) Dates of the first, second and third opportunity to reconsider whether compulsory process needs to be followed:

Part C: Land Details

- 17 Total affected land area (acres):
- 18 Land tenure relevant to affected property and/or asset:
- 19 Full name of the landowner, if occupant/asset owner is not the land owner:
- 20 PAP Identification/valuation number of land owner:
- 21 Land uses practiced by the PAP on affected property:

Part D: Structures and improvements

- 22 Number of structures **OWNED** on affected property

Structures/improvements on affected property

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Structure/ GPS no. (Extension of PAP & Property number)	Photo	Use	Occupancy status	Walls	Roof	Number of rooms	Max No of people sharing	se n r Ceiling	Window frame	No. of windows	Door	No. of doors	Floor	Structure Condition	Dimension main building	Dimensions veranda	Sketch
VAL/Vil/ 001/L/S1																	
VAL/ Vil/001/L/S2																	

41 Are any of the structures used or occupied/rented by someone other than the PAPs household? **If YES, specify in the table below:**

42	43	44	45	46	47	48
Structure/ GPS Number	Name/s of occupant / user	Relationship to structure owner	Contact details of occupant /user	Tenure status	If rented monthly amount	New PAP number
VAL/ Vil/ 001/ L / S1						e.g. VAL/VIL/001/L/S1/O
VAL/ Vil/ 001/ L / S2						e.g. VAL/ Vil/ 001/L/S2/O

Part E: Graves and sites of cultural significance

49 Are there any graves or sites of cultural significance located within the affected land area? Y / N

Graves/cultural significant site/s:

GPS/Track no.	50 Description	51 Name of deceased	52 Name of custodian
VAL/ Vii/ 001/ L / G1			
VAL/ Vii/ 001/ L /G2			

Cultural significant site/s:

GPS no.	53 Description	54 Name of custodian
VAL/ Vii/ 001/ L / C1		
VAL/ Vii/ 001/ L / C2		

Part F: Trees of economic value

55 Tree name	56 Trees and maturity ~ Quantity or Area (acres)					
	30%	60%	100%	15%	Total	Track
Mikorosho	12	21	-	2	35	
Migomba	2 acres	-	-	-	2 acres	VAL/Vii/001/L/ Tr1

Part G: Grazing land

57 Area name	58 Size	59 Tenure	60 Type of Grazing	61 Proximity to Water Source
VAL/Viii/001/T/Gr1	0,75acres	Rented		

Part H: Seasonal crops

62 Crop name	63 Crop ~ Area (acres) or Quantity					
	30%	60%	100%	15%	Total	Track
Vanilla	0,75acres				0,75acres	VAL/Vii/001/L/ Cr1

Part I: Any other claims/ disturbances as per National valuation guidelines

a.	
b.	
c.	

Section H: Certificate of Translation:

I, of do hereby confirm that I have duly explained to the said all the information contained in this form in dialect / language that he / she / they understand and that he / she / they fully understood all the information contained in this form before he / she / they signed or made his / her / their thumb mark.

Signature:**Date:****Section I: Acknowledgement and Signature:**

I agree with the assessment of the Valuer and hereby sign as evidence that I was present during the survey exercise.

Full Name of PAP:		Signature:	Right Thumb Finger Print:
Full Name of Spouse:		Signature:	Right Thumb Finger Print:
Full Name of Witness: (tick appropriate box)	Neighbour: <input type="checkbox"/> Relative: <input type="checkbox"/> Village leader: <input type="checkbox"/> Other (specify):	Signature:	Right Thumb Finger Print:
Full Name of Village Chairperson:		Signature:	Right Thumb Finger Print:
Full Name of Valuer:		Signature:	
Full Name of GoT Representative:		Signature:	

Ward:

Lusanga	1
Misima.....	2
Kijungu	3
Partimbo.....	4
Suruke.....	5
Msisi.....	6
Naga	7
Igusule	8
Bukombe.....	9
Bukome.....	10
Kasharunga.....	11
Kyaka	12
Saunyi	13
Njoro	14
Other (specify).....	15

Village

Momboleyo	
Misima.....	1
Gita	2
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Mnyemfu	13
Other (specify).....	14

Refusal reason

Absence of property and/or asset owner.....	1
Need to consult with other family members or third-parties	2
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Land tenure and ownership

Customary land tenure un-registered.....	1
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Leasehold/Renting.....	3
Freehold based on agreement of use with landowner	4
Freehold no agreement with landowner	5
Communal land	6
No tenure - Public land	7

Land use

Residential	1
Grazing.....	2
Agriculture	3
Fallow.....	4
Vacant.....	5
Business.....	6
Public	7

Use of structure

Multifunctional residential used less than 6 months a year.....	1
Multifunctional residential used more than 6 months a year	1
Sleeping only.....	2
Kitchen	3
Toilet	4
Shower.....	5
Business only	6
Combined multifunctional residential & business	7
Recreation / meeting	8
Grain storage.....	9
Livestock kraal.....	10
Poultry coop	11
Other (specify).....	12

Occupancy status

Occupied by members of the PAPs household.....	1
Occupied by tenants paying rent to the PAP.....	2
Occupied by occupants not paying rent (e.g. workers).....	3
Not occupied	4
Business structure.....	5
Institutional/government structure	6

Relation with head of household

Household head.....	1
Spouse of household head.....	2
Son/ daughter of household head.....	3
Son-in-law/ daughter-in-law of household head	4
Grandchild of household head.....	5
Parent of household head	6
Parent-in-law of household head	7
Brother/ sister of household head.....	8
Cousin of household head.....	9
Grandparent of household head.....	10
Not related but dependent.....	11
Other (specify)	12

Demarcation Material

Trees	1
Fencing wire	2
Wall	3
Bushes.....	4
Sisal.....	5
Road/Pathway	6
Other (specify).....	7

Walls

Mud blocks only	1
Mud blocks & plasters	2
Concrete blocks	3
Clay bricks	4
Plastic sheet	5
Mud and sticks.....	6
Tin / iron sheet	7
Other (specify)	8

Roof

Thatch	1
Tin / iron sheet	2
Plastic sheet	3
Wooden planks	4
Tiles.....	5
None.....	6
Other (specify)	7

Window frame

Steel	1
Wood.....	2
None.....	3
Other (specify)	4

Door

Steel	1
Wood	2
None.....	3
Other (specify)	4

Floor

Cement	1
Tiles.....	2
Plastic tiles.....	3
Mud / earth.....	4
Other (specify)	5

Structure Condition

Complete	1
Partially constructed.....	2
Dilapidated.....	3
Other (specify)	4

Fence

Wooden sticks	1
Wire	2
Combination of sticks and wire.....	3
Bush / shrubs.....	4
None.....	5
Other (specify)	6

Crops

Cassava.....	1
Rice	2
Yam	3

Corn	4	Mikaratus	49
White sorghum	5	Mwarobaini/Neem	50
Red sorghum	6	Mng'ong'o/King'ong'o	51
Peanuts/groundnuts	7	Mpira/Rubber	52
Cowpea	8	Mkrismasi/Christmas	53
Cotton	9	Mpilipili-Mti /Pepper	54
Onion	10	Lucina trees	55
Tomato	11	Ashok trees	56
Lettuce	12	Misonobari/Pine	57
Carrots	13	Gravelia	58
Cotton	14	Karanga Miti/Macademia nuts	59
Coffee	15	Gundi/Gum	60
Beans	16	Mitiki/Tiki	61
Potato	17	Mitopetope/Sweetsop	62
Pumpkin	18	Michongoma/Thorn tree	63
Maize	19	Mjohoro/Acacia	64
Pimento	20	Mnyaa	65
Aubergine	21	Mfolosadi	66
Green legume	22	Mti maua/Flower tree	67
Watermelon	23	Mlonge/Moringa	68
Melon	24	Mkama/	69
Okra	25	Castor Nyonyo	70
Mango	26	Cashew trees	71
Banana	27	Cassava	72
Orange	28	Maize	73
Citrus	29	Sorghum	74
Papaya	30	Rice	75
Sisal	31	Peas	76
Other (specify)	32	Groundnuts	77
		Sesame	78
Economic trees		Sugar cane	79
Minazi/Coconut	1	Plantain	80
Mikorosho/Cashewnuts	2	Bananas	81
Michikichi/Oil palm	3	Mangoes	82
Miwa/Sugar cane	4	Coconuts	83
Mikarafuu/Cloves	5	Oil palm	84
Msufi/Msufi	6	Paw-paw	86
Mikonge/katani/Sisal	7	Natural forest	87
Kokoa/Cocoa	8	Other (specify)	88
kahawa Arabica/Coffee Arabica	9		
kahawa Robusta/Coffee Robusta	10		
Mparachichi/Ovacado	11		
Mparachichi (improved)/Ovacado improved	12		
Mchenza/Tangarine	13		
Michungwa/Oranges	14		
Michungwa improved/Oranges improved	15		
Ndimu/Lemon	16		
Mlimau improved/Lemon improved	17		
Miembe/Mango	18		
Miembe kisassa/Mango improved	19		
Miembe Dodo/Mango dodo	20		
Mipera/Guava	21		
Mifenesi/Jackfruit	22		
Migomba/Bananas	23		
Minanasi/Pineapples	24		
Mipapai/Pawpaw	25		
Mikweme /Oyster nuts	26		
Komamanga/Pomegranate	27		
Mistafeli /Custard apple	28		
Mitende/Date palm	29		
Mipension/Passion fruit	30		
Pears	31		
Apples	32		
Peaches	33		
Mlozi /Almond	34		
Walnuts	35		
Chestnuts	36		
Lime Tree	37		
Mibuyu/Boabab	38		
Mzambarau/Plum tree	39		
Mikwaju/Tamrind tree	40		
Mzeituni/Olive tree	41		
Mzabibu /Grape	42		
Mkungumanga /Nutmeg	43		
Miti ya Kivuli/Shade trees	44		
Miti ya mbao Ngumu i.e Mininga/Hard wood trees Mininga	45		
Mipingo/Blackwood	46		
Mianzi/Bamboo	47		
Mkungu	48		

Part A: Data collection information

1. Valuation/household number:.....
2. Interviewer names:.....
3. Date:
4. Ward:
5. Village:
6. Names of household head (HHH):.....
7. Nationality of HHH
8. Mobile number of HHH or main contact person:.....
9. Names of person interviewed (if not the HHH):
10. Relationship of person interviewed to HHH:

Part B: Household demographics

1. Is this household part of a polygamous household?
2. If yes, state the number of wives:
3. Household number/s of related polygamous households:
4. Home language:.....
5. Ethnicity:
6. Religion:

Part C: Residency and tenants

1. For how many years has the household been living in this Village?
2. Does the household have another home? Y/ N
3. If yes, where is this other home:
4. Are there tenants accommodated on this property?
5. If yes, number of tenants being accommodated?....
6. Is the property used for business purposes? Y / N

Part F: Household members

1. How many people are in this household (excluding tenants/occupants)?

1. Name	2. PAP number	3. Age or Date of Birth	4. Relationship to household head	5. Marital status	6. Gender	7. Resident status	8. Disability/serious illness	Only for persons 5 years and older			Only for persons 15 years and older		
								9. Attending school?	10. Highest education completed	11. Able to read?	12. Primary activity (if formal employment specify, location)	13. Secondary activity	14. Employable skills
					M / F			Y / N		Y / N			
					M / F			Y / N		Y / N			

7. If yes, specify type of business?.....

Part D: Dwellings and structures

1. How many structures do this household own?.....
2. How many of each structure make up this homestead?

Structure	#
Multifunctional residential	
Stand-alone Sleeping	
Stand-alone Kitchen	
Stand-alone Toilet/Shower	
Business only	
Combined multifunctional residential & business	
Livestock kraal	
Other (specify)	

Part E: Water, sanitation and energy

1. Where is this household's water MOSTLY obtained from?
2. How long does it take to walk to that water source? (minutes)
3. What do you use the water for?
4. What method, if any, do you use most often to treat your water before drinking it?.....
5. What type of sanitation facility does this household use on most days?.....
6. Does the household share this sanitation facility with another household? Y / N.....
7. What energy does the household mostly use for cooking?
8. What energy does the household mostly use for lighting?

Part G: Land tenure and arable land

1. How many pieces of arable land does this household currently have access to?
2. If none, please provide reason?
3. What are the main crops/plants grown by the household?
4. What is the total acreage grown per season
5. What is the average quantity of this crop/plant sold per season? (Quantity & percentage)
6. What is the second most important crop/plant grown by the household?.....
7. What is the total acreage grown per season
8. What is the average quantity of this crop/plant sold per season? (Quantity & percentage)
9. Would you say that farming produces the (a.) principle or (b.) supplementary food source for this household?
10. Would you say that farming produces the (a.) principle or (b.) supplementary cash income for this household?
11. What tillage method does the household mostly use?
12. Has your household received any agricultural extension services during the last two seasons? Y/N.....
13. Did the household use any of the following modern inputs during the last season? (a.) improved seeds (b.) fertiliser (c.) improved breeds of livestock (d.) tractor

For each piece of land owned or used by the household, please provide the information indicated below:

#	1. Is the land within 100m of the home?	2. What is the piece of land used for?	3. Type of tenure	4. Estimated number of acres	5. Is the land impacted by Project? (field number)
1	Y/N				
2	Y/N				

Livestock/ Poultry	Est. Number owned by household	Use		
		Consumption	Sales	Rituals / ceremonies
6. Guinea fowl		Y / N	Y / N	Y / N
7. Pigeons		Y / N	Y / N	Y / N
8. Other (specify)		Y / N	Y / N	Y / N

Part H: Livestock and poultry

1. Does your household currently have access to land for grazing livestock? Y / N
2. If yes, how far is the grazing area from this homestead (minutes' walk)?
3. If No, please provide reason?
4. Does the household own any livestock animals and/or poultry?

Livestock/ Poultry	Est. Number owned by household	Use		
		Consumption	Sales	Rituals / ceremonies
1. Cattle		Y / N	Y / N	Y / N
2. Sheep		Y / N	Y / N	Y / N
3. Chickens / poultry		Y / N	Y / N	Y / N
4. Pigs		Y / N	Y / N	Y / N
5. Goat		Y / N	Y / N	Y / N

Part I: Use of natural resources

Resource type	Harvesting frequency? (D-Daily, W-Weekly, S- Seasonally)	For own use (O) or to sell (S)
1. Wood (construction/ fire)	D / W / S	O / S
2. Bamboo	D / W / S	O / S
3. Honey	D / W / S	O / S
4. Forest food products	D / W / S	O / S
5. Bush meat	D / W / S	O / S
6. Fish	D / W / S	O / S
7. Medicinal plants	D / W / S	O / S
8. Clay (brickmaking)	D / W / S	O / S
9. Thatch/Straw	D / W / S	O / S
10. Other (specify)	D / W / S	O / S

Part J: Sources of livelihood

1. What is the MOST important livelihood activity for this household?.....
2. Is the household mostly engaged in (a.) cash generating or (b.) food producing activities?.....
3. Please indicate main sources of household income below (all family members).

(Cross check all sources of income with reported sources of livelihood)

Source of income	Amount during last month for entire household (TSH)	Regular (R), Occasional (O)
1. Salary/wage (specify source)		R / O
2. Small-scale/ artisanal mining		R / O
3. Small trader		R / O
4. Crop sales		R / O
5. Livestock sales (incl. sale of animal products)		R / O
6. Social grants		R / O
7. Tenants		R / O
8. Firewood and/or charcoal		R / O
9. Building materials		R / O
10. Other (specify)		R / O

4. Who is the main cash income provider?

Part K: Marketing of produce and transport

1. Where do you sell most of your produce, crops or animals? (If at home, cross check with Q)
2. What is the principal mode of transportation used to take your goods to where they are sold?
3. How long does it take you to transport your goods to where it is sold?
4. What is the principal mode of transportation used to travel to work or farms?.....

Part L: Expenditure

Expenditure item	Rank the 5 most important items (1 most important – 5 least important)	Est. Amount during last month for entire household (TZS)
1.		
2.		
3.		
4.		

Part M: Credit

1. Does the household rely on any of the following credit lending facilities?

Facility	Y/N
1. Microcredit Fund	
2. Bank	
3. Mutual Credit	
4. Loans from family and/or friends	

Part N: Moveable assets

Item	Number currently owned in <i>working order</i>
1. Cell phone	
2. Radio	
3. Television	
4. Sewing Machine	
5. Motor cycle	
6. Car/Van	
7. Tractor	
8. Donkey cart	
9. Bicycle	
10. Wheelbarrow	
11. Solar Panel	
12. Fridge	
13. Gas lamp	
14. Bed	
15. Generator	
16. Seeder	
17. Plow drawn by oxen	
18. Table	

Part Q: Access to public services and livelihood resources

Service / resource	Location (Name of nearest village/town)
1. Bus stop	
2. Clinic/ Health Centre	
3. Market/ shop	
4. Police station	
5. Bank / credit facilities	
6. Hunting area	
7. Fishing area	
8. Area where medicinal plants are collected	
9. Area where firewood and forest food products are collected	

Part O: Nutrition

1. Was there a shortage of food during the last two seasons? Y / N.....
2. If yes, circle the months: Jan / Feb / March / April / May / June / July / Aug / Sept / Oct / Nov / Dec
3. What was the most important reason for food shortage?

Part P: Health

1. Generally, when members of this household get ill, where do they go for medical attention?
2. How long do household members need to travel to get to this facility (minutes)?
3. Has your household received any household immunisation services in the last 6 months? Y/N ...
4. How often is the household visited by a community health worker?
5. Does your youngest child have a vaccination card? Y / N

Part R: Social networks

1. Do you have relatives in this village? Y / N

Activity	Depend on friends and/or family
1. Share equipment / tools / transport / Cultivate fields etc.	Y / N
2. Exchange goods / services	Y / N
3. Take care of children	Y / N
4. Take care of sick household members	Y / N
5. Borrow money	Y / N

Part S: Needs analysis

1. What is this households five most urgent needs? ..

Need	Rating (Assign 1 to most urgent and 5 least urgent)
1. Infrastructures i.e. roads, bridges	
2. Foodstuffs/water	
3. Health facilities	
4. Schools	
5. Agricultural equipment	
6. Police station	
7. Skills training	
8. Employment	
9. Community gardens	
10. Livestock watering hole	
11. Other (specify)	

Service / resource	Location (Name of nearest village/town)
1. Church/mosque	
2. Primary/Secondary school	

Part T: Expectations regarding the project

1. What are your main expectations regarding the proposed EACOP project:

Issue	Y/N
1. It will create employment	
2. It will create opportunities for local businesses	
3. It will bring development projects	
4. It will improve local infrastructure (roads, etc.)	
5. It will help to build schools, community facilities, etc.	
6. Other (specify)	

2. What are your main concerns regarding the proposed EACOP project:

Issue	Y/N
1. People will be displaced off their land	
2. Jobs will be given to outsiders	
3. Loss of traditional values	
4. It will impact on water resources	
5. The environment will be polluted	
6. Other (specify)	

3. Are you willing to relocate your household to another area if required? Y/N
4. Are you willing to relocate your agricultural activities to another area? Y/N
5. Suppose the livelihood activities that you are currently depending on are impacted upon due to a loss of your house and/or land? What would the best way be to restore your life?

Wards

Lusanga.....	1
Misima.....	2
Kijungu.....	3
Partimbo.....	4
Suruke.....	5
Msisi.....	6
Naga.....	7
Igusule.....	8
Bukombe.....	9
Bukome.....	10
Kasharunga.....	11
Kyaka.....	12
Saunyi.....	13
Njoro.....	14
Other (specify).....	15

Villages/settlements

Momboleyo	
Misima.....	1
Gita.....	2
Kwavijana.....	3
Ilala.....	4
Mwabib.....	5
Busonge.....	6
Bumkombe town.....	7
Bukome.....	8
Runazi.....	9
Bulifani.....	10
Kushaba.....	11
Bulyang'ombe.....	12
Mnyemfu.....	13
Mtaa.....	14
Other (specify).....	15

Hamlet

tbd.....	1
Other (specify).....	2

Relationship of person interviewed to HHH

Household head.....	1
Spouse of household head.....	2
Son/ daughter of household head.....	3
Parent or parent-in-law of household head.....	4
Other (specify).....	5

Home language:

Kiswahili.....	1
Kisambaa.....	2
Kizigua.....	3
Kibondei.....	4
Kimburu.....	5
Kigogo.....	6
Kinyiramba.....	7
Kisukuma.....	8
Kinyamwezi.....	9
Kihaya.....	10
Kinyambo.....	11
Kimakua.....	12
Kimakonde.....	13
Kiyao.....	14
Kingereza.....	15
Luganda.....	16
Other (specify).....	17

Ethnicity:

Wadigo.....	1
Wasambaa.....	2
Wamburu.....	3
Mang'ati.....	4

Wagogo.....	5
Warangi.....	6
Wanyaturu.....	7
Wanyiramba.....	8
Nyamwezi.....	9
Sukuma.....	10
Wahaya.....	11
Buganda.....	12
Other (specify).....	13

Religion

Islam.....	1
Christian.....	2
Animism.....	3
Other (specify).....	4

Nationality

Tanzanian.....	1
Malawian.....	2
Kenyan.....	3
Ugandan.....	4
Other (specify).....	5

Payment to stay on land

Land board.....	1
Chief/headman.....	2
Employer.....	3
Government.....	4
Other (specify).....	5

If yes, where is this other home:

Same village.....	1
Other Village in this District (specify Village).....	2
Other District in this Region (specify District).....	3
Other Region (Specify Region).....	4
Other Country (specify Country).....	5

Type of business

Small trading from shop.....	1
Mechanical Workshop.....	2
Salon.....	3
Other (Specify).....	3

Where is water MOSTLY obtained from?

Communal borehole/well.....	1
Individual borehole/well.....	2
Government provided water (community tap/standpipe).....	3
River, stream, dam or creek.....	4
Rain tank.....	5
Water vendor.....	6
Other (specify).....	7

What do you use the water for?

Drinking.....	1
Domestic use (bathing, cleaning, etc.).....	2
Irrigation / crops.....	3
Livestock.....	4
Other (specify).....	5

What method, if any, do you use most often to treat your water before drinking it?

Do not treat water.....	1
Boiling.....	2
Adding bleach/ chlorine.....	3
Straining through cloth.....	4
Letting it stand and settle.....	5
Water filter.....	6
Other (specify).....	7

How do you store drinking water?

Do not store	1
Special water buckets	2
Any buckets	3
Covered clay pot	4
Other (specify)	5

Sanitation facility

No sanitation facility	1
Pit latrine	2
Flush toilet	3
Other (specify)	4

Type of energy mostly

Generator	1
Solar panel	2
Public Electricity	3
Charcoal	4
Flashlight/Batteries	5
Butane Gas	6
Candles	7
Wood	8
Cow dung	9
Paraffin	10
Other (specify)	11

Relationship to household head

Household head	1
Spouse of household head	2
Son/ daughter of household head	3
Son-in-law/ daughter-in-law of household head	4
Grandchild of household head	5
Parent of household head	6
Parent-in-law of household head	7
Brother/ sister of household head	8
Cousin of household head	9
Grandparent of household head	10
Adopted/ foster/ step child of household head	11
Orphan	12
Not related but dependent	13
Other (specify)	14

Marital status

Married	1
Divorced	2
Widowed	3
Single	4
Living together	5
Child	6

Resident status

Lives here full time	1
Lives here part-time (more than 5 days per month)	2
Lives here irregularly (less than 5 days per month)	3

Highest education

None	1
In primary School	2
Did not finish primary School	3
Finished Primary School	4
In Secondary School	5
Did not finish Secondary School	6
Finished Secondary School	7
Higher Educational Level	8

Economic/livelihood activity

Farming	2
Small trading	3
Livestock keeping	4
Artisanal mining	5

Other self-employment/ own business	6
Salaried employment	7
Day laborer/ pieceworker	8
Unemployed but looking for work	9
Too old or sick to work	10
Staying at home/ not looking for work	11
Still in school or studying	12
Other (specify)	13

Employable Skills

Driving	1
Operation of heavy equipment	2
Mechanical skills	3
Electrical skills	4
Plumbing	5
Builder/ construction	6
Carpentry	7
Computer operating	8
Administrative/ clerical	9
Warehouse/ storekeeping	10
None of the above	11

No access to farming land

Not enough money to rent land	1
Not enough land available	2
No need for land	3
Other (specify)	4

Crops/plants

Cassava	1
Rice	2
Yam	3
Corn	4
White sorghum	5
Red sorghum	6
Peanuts/groundnuts	7
Cowpea	8
Cotton	9
Onion	10
Tomato	11
Lettuce	12
Carrots	13
Cotton	14
Coffee	15
Beans	16
Potato	17
Pumpkin	18
Maize	19
Pimento	20
Aubergine	21
Green legume	22
Watermelon	23
Melon	24
Okra	25
Mango	26
Banana	27
Orange	28
Citrus	29
Papaya	30
Other (specify)	31

Total acreage grown per season

1-5	1
5-10	2
10-15	3
15+	4

Average amount sold per year (bunches, kilograms, sacks, poles)

1-5	1
-----------	---

5-10	2
10-15	3
15+	4
Other (specify)	5

If any fields were left uncultivated, why were they not cultivated?

Resting/ lying fallow	1
No rain	2
Late rain	3
Not enough financial resources	4
No seeds to plant	5
No farming implements	6
Shortage of labour	7
Birds/ animals eat the crops	8
Pests/ crop disease	9
Other (specify)	10

Tillage method

Leased line cows (plough)	1
Manual labour	2
Tractor	3
Other (specify)	4

What is the piece of land used for?

Cultivation of crops throughout the whole year	1
Cultivation of crops during part of the year	2
Fallow/ resting	3
Grazing	4
Rented or lent to someone else	5
Not used	6
Other (specify)	7

What type of ownership does the household have over the land?

Mailo	1
Individual land title	2
Customary land title	3
Rent/Lease (paid in cash)	4
Rent/Lease (paid in kind)	5
Free load	6
Occupied without authorization	7
Other (specify)	8

Grazing areas

Around the homestead/concession	1
In the pasture of the village	2
Grazing in the forest	3
Transhumance	6
Other (specify)	7

Livelihood resources

Subsistence farming	1
Sales of crops	2
Small trading	3
Sales of livestock/ livestock products	4
Artisanal mining	5
Other self-employment/ own business	6
Salaried employment (specify)	7
Other (specify)	9

Main income provider source of income

Farming	1
Fishing	2
Shepherding	3
Hunting	4
Driving	5
Apprentice	6
Mechanic	7
Shop owner	8

Military service	9
Livestock seller	10
Baker	11
Butcher	12
Carpenter	13
Artisanal mining	14
Other (specify)	15

Where do you sell most of your produce, crops or animals?

At the village itself	1
Surrounding villages	2
Surrounding towns (specify)	3
Other (specify)	4

Who transports produce to the market

Male adult	1
Female adult	2
Male child	3
Female child	4

How long does it take you to transport your goods to where it is sold?

Less than 1hour	1
1-3 hours	2
3-6 hours	3
More than 6 hours	4

Mode of transport

Bicycle	1
Bus	2
Car driver	3
Car passenger	4
Animal drawn cart	5
Motorbike	6
Truck	7
Head loading	8
Public transport	9
Other (specify)	10

What was the most important reason for food shortage?

Lack of income	1
Shortage of instruments to farm	2
Animals destroy crops	3
Drought	4
Lack of access to markets	5
Insufficient labour	6
Shortage of land	7
Sold food for cash	8
Bad luck/ witchcraft	9
Other (specify)	10

Health Facilities

District hospital	1
Public health centre	2
Private sector health facility	2
Private nurse	5
Traditional therapist/healer	6
Did not seek treatment	8
Other (specify)	9

HIV/AIDS Perception/information

It kills	1
Incurable	2
The manner in which it is contracted	3
Treatment or management of the condition	4
Other	5

Frequency of visits from health care workers?

Once a month	1
--------------------	---

Twice a month	2
Once in three months	3
Twice a year	4

Common causes of HIV/AIDS

Irresponsible sexual behaviour	1
Blood transfusion	2
Sharing of sharp instruments such as syringes, razorblades etc.....	3
Mother to child transfusion.....	4
Don't know.....	5
Other (specify)	6

Relocation preferences

I don't want to lose access to my land	1
Replacement of my land elsewhere to continue cultivation .	2
Be compensated with cash and find another land for cultivation	3
Be compensated with cash and start another business	4
Other	5

Appendix B

Market Survey for Compensation Rates



East African Crude Oil Pipeline

Social and Resettlement Services for the East African Crude Oil Pipeline, Tanzanian Section

Market Survey for Compensation Rates – Kagera Region

Total East Africa Midstream B.V.

Valuation Consultants


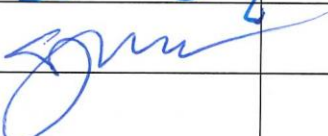
Date: 26th November, 2018





This document has been prepared by **Whiteknights Real Estate Investment Analysts Company Limited**

Report:	Market Survey for Compensation Rates – Kagera Region
Project Name:	Social and Resettlement Services for the East African Crude Oil Pipeline, Tanzanian Section
Project Code:	TOT5212

Name	Responsibility	Signature	Date
Dr M. Geho	Author		26/11/2018
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1 BACKGROUND INFORMATION

The process of establishing compensation rates for the East African Crude Oil Pipeline (EACOP) Project commenced in 2017 whereby compensation rates to be used in Early Works (EW) and Priority Area (PA) sites were ascertained. A workshop on compensation rates attended by Digby Wells Consortium (DWC) staff, Government Valuers from the Ministry of Lands, Housing and Human Settlements Development (MLHHSD) and District Valuers took place on 9th October, 2017 to kick-start the process for the formulation of current asset compensation rates for the EACOP Project. As a result of collaborative action between DWC staff and more specifically Whiteknights Real Estate Investment Analysts Company Limited who are the appointed Project Valuers, research was undertaken to inform the development of compensation rates to be used for Early Works (EW) and Priority Area (PA) sites. These rates were subsequently finalised on 3rd April, 2018 and approved by the Chief Valuer on 11th April, 2018 (See Appendix A).

During 16 May – 20 September 2018, the Early Works (EW) and Priority Area (PA) sites research initiative was followed up with a market asset survey conducted for the entire oil pipeline route in Tanzania covering 1,147 kilometres from Missenyi District in Kagera Region to Tanga City in Tanga Region. The market survey took place in conjunction with valuation asset surveys along the oil pipeline route. Nine project teams were involved in carrying out the market survey. In each of the nine teams, valuation research staff comprised a Senior Sensitisation Valuer, Valuation Team Leader and three Assistant Valuers. The market asset survey aimed at establishing market compensation rates for land, construction rates for buildings and structures; rack rental rates for buildings; compensation rates for "unlisted" crops and trees; and compensation rates for graves and spiritual sites.

From 1st to 4th November 2018, a team of Senior Valuers from Whiteknights Real Estate Investment Analysts Company Limited conducted consultations with District Valuers (DVs) for Missenyi, Bukoba Rural, Muleba and Biharamulo Districts in Kagera Region. Engagement with the DVs was made at the District Headquarters and augmented with site visits to selected sites in the pipeline corridor. The main aim of the engagement of District Valuers was validation with the DVs of proposed market asset compensation rates prepared by the Project Valuers for use in Pipeline Valuation reports for this region.

After the District Valuers' engagement, the Project Valuers prepared the final draft compensation rates with a view to presenting them to The Chief Valuer of the Government to endorse before they are used in the pipeline project. In compiling proposed land compensation rates to be used for the Pipeline route, approved compensation rates for EW/PA sites formed benchmarks in deriving land values where the pipeline route is in proximity of an EW/PA site.

This dossier presents in detail the methodology which was adopted to generate these valuation compensation rates and constitutes the final report on compensation rates to be presented to the Chief Valuer for endorsement of the rates in conformity with the requirements of The Valuation and Valuers and (General) Regulations, 2018.

2 OBJECTIVES OF THE MARKET SURVEY

The overarching objective of the market survey undertaken between 16th May – 20th September 2018 was to establish:

- a) Market compensation rates for land taking into account prevailing land market prices at the various locations;
- b) Replacement cost rates for buildings, structures and other improvements on the land;
- c) Rack/Market rental rates for buildings and structures;
- d) Market compensation rates for "unlisted" crops and trees;
- e) Market compensation rates for graves taking into account provisions of The Graves (Removal) Act, 1969 and prevailing burial practices;
- f) Market compensation rates for the removal of spiritual sites.

3 SURVEY AND DATA ANALYSIS METHODOLOGY

Under the provisions of The Valuation and Valuers (General) Regulations, 2018 the Registered Valuer for a compensation project has to undertake research in order to establish current or up-to-date market values and costs of compensable items so that Project Affected Persons (PAPs) are paid compensation which is fair and adequate. The results of the market research undertaken, and the rates established by the Registered Valuer, need to obtain the Chief Valuer's endorsement before being used in the project.

3.1 Land Value Rates

In ascertaining land value rates, Whiteknights Real Estate Investment Analysts Company Limited (hereafter referred to as Whiteknights) employed the Comparative Method of Valuation as per the requirements of Regulation 8 and 9 of The Valuation and Valuers (General) Regulations, 2018. These two vital Regulations are reproduced ad-verbatim below.

8. "The basis for assessment of any land and unexhausted improvements for purposes of compensation under the Act shall be the market value of such land and unexhausted improvements".

9. "The market value of any land and unexhausted improvement shall be arrived at by use of comparative method with evidence from actual recent sales of similar properties or by use of the income approach or replacement cost method where the property is of special nature and not saleable". (emphasis supplied).

Similarly, Regulation 55 (4) states:

"In assessing market value for land, the Valuer shall use comparative or market approach".

In order to determine land value rates, research undertaken along the pipeline corridor adopted a **mixed research method** using the quantitative approach where statistical inferences were made. These statistical analyses were augmented with qualitative approach which was mainly founded on deductive reasoning.

The land market activities and more specifically land transaction activities within four Districts in Kagera Region (Missenyi, Bukoba Rural, Muleba and Biharamulo) were systematically analyzed with a view to ascertaining current land value rates to be used in valuing compensable land parcels along the pipeline corridor. Firstly, the available transaction documents in the form of sales agreements were collected from village leaders, as the main source of raw data for the research. Secondly, interviews were conducted with responsible village and ward leaders, and also villagers in both the affected villages and other unaffected villages which are contiguous to the affected wards. Discussions were also held with peer land professionals, namely District Valuers and Authorized Land Officers of the respective districts. These interviews were mostly undertaken by sensitization valuers most of whom were the Project's Senior Valuers who had been engaged in sensitizing the villagers, PAPs, and village leaders regarding various valuation aspects for the project.

These valuers are experienced land professionals who have practiced for a considerable period of time and possess the requisite experience and expertise in engaging with land market actors.

The field work for the market study undertaken by the valuers focused on:

- Collecting land sales agreements with the aim of getting data and information on land purchases within affected hamlets, villages and wards, identifying the prices, actors, spatial dimension of the land parcels, nature of the land, and transaction dates.
- Undertaking interviews and focused group discussions with villagers and leaders at various village and ward levels in an attempt to get credible transactions data and information, and
- Viewing the transacted land parcels and observing the basic land characteristics and aspects which would have affected land parcel values, building rates and rentals.

In the realms of real estate, it is known that property markets are inefficient, and this has a bearing on how real estate research is conducted. Land parcels and properties are heterogeneous products, i.e. no two land parcels or properties are 100% identical. In addition, property market transparency is often limited and property markets tend to exhibit a marked degree of opaqueness. Most property deals are conducted clandestinely and in confidence making the obtaining of land market data difficult. The absence of a central market for real estate, as is the case with financial assets, further accentuates data problems relating to land/property sales. Hence, it should be borne in mind, this study was no exception and had to contend with typical data constraints associated with immature property markets. In these circumstances, great reliance was placed on our experience with property markets in Tanzania, deductive reasoning and sense of judgement.

In the Kagera Region, the collection of data and information for creating the required compensation rates was faced with a number of challenges. These included reluctance on the part of local village and ward leaders in providing data from their areas of jurisdiction because they either had no reliable data or had no sales data at all. Furthermore, only a few village leaders kept transaction documents or records in their offices whereas others were afraid of “betraying the electorate” i.e. PAPs who happen to be their voters in all local government elections, the next being due in 2019. It was apparent that village leaders preferred to give valuers higher priced transactions rather than those which were realistic with lower land prices. Some of the village leaders claimed they were observing confidentiality of sales transactions i.e. they claimed land sales agreements are typically confidential only to parties who were privy to the sales contract, and accordingly the village leaders could not divulge information to Whiteknights. It is noteworthy that these constraints were not of the same character or magnitude across villages.

Despite the existence of data constraints, it was still possible to capture reliable data to inform pipeline valuation rates through a combination of methods, including examining land rates issued by the Chief Valuer, interviews conducted privately with individual villagers, comparison with approved EW/PA land rates, carrying out value profiling for the pipeline route and data validation with District Valuers.

Data analysis involved compiling market land prices within a hamlet and later on villages, and adjusting them for the time lag for those transactions which were not carried out recently. Similarly, the exercise involved converting the units of measurement used in the transactions into standardized units of analysis. The type of units used in the transactions and recorded in the sales agreements included square feet, square metres and simply pacing the length and width of the land parcels using footsteps. The transaction medium was mainly in Tanzania shillings but in some instances it was Ugandan shillings, cows and goats and other forms of in-kind payment. These varied transaction media were appropriately converted into Tanzania shillings having ascertained the actual market or selling prices of in-kind compensation in Tanzanian shillings at the time of the transaction. These transacted prices were divided by the land area to produce a price per “acre” or price per square metre for building land, which was taken as a unit of analysis. Later on these analysed prices were aggregated at the ward level to arrive at the Land Value Rate for the ward in question.

During the analysis, all the affected wards in a district were sequentially arranged from the first to the last ward in a district in order to observe the relativity of values across wards. In a typical case of a district like Missenyi District in Kagera Region bordering Uganda, the first ward is Mtukula and the last ward is Biharamulo on the far end bordering Geita Region. This protocol was replicated in generating land value rates for all wards within districts affected by the pipeline project. After the land value rates had been arranged sequentially, a land value profile was established and graphed. Qualitative analysis was subsequently applied to identify land rate outliers that could not be justified. For a typical land value profile seen in Figure 1 below, the trend line drawn from the data shows a smooth transition of values from one ward to another, except in areas where there are known extraordinary factors or phenomena affecting land value. These outliers were then picked up as areas requiring further research and consultations with District Valuers were made to understand or adjust the outliers. This iterative calibration process was repeated until a realistic land value profile emerged. In some cases, the calibration process involved data interpolation and extrapolation. The generation of a land value profile and the calibration of values constitute typical protocol for the analysis of land values in linear projects.

In order to be able to visualise the spatial dimension of the land value rates across the pipeline route in Kagera Region, land value maps for the 19 affected wards in Missenyi, Bukoba Rural, Muleba and Biharamulo Districts were prepared. The land value maps are presented in Appendix B.

3.2 Rack Rental Value Rates

In common parlance, rent is the amount of money paid for the use of an asset for a specified period of time. In the domain of real estate, the rack rental value of a property is the maximum rent a property would fetch if exposed in the market under typical market conditions conforming to the market value standard.

From the existing Whiteknights valuation database, a number of house categories were established based on the type of building, description of building materials used in construction and the standard of workmanship, all of which were checked against photographs of the building type in question. For these building categories, rental values

were collected from the village and ward leaders and the villagers themselves. From the information and data collected in a typical hamlet or village for a particular type of building, a simple average rental was established for a space unit per month. Descriptive statistics (i.e. minimum, maximum, range and mean values) for the data were calculated and this enabled the ascertainment of realistic rental values for building categories within a village and later on a ward. These rental values are expressed in terms of number of shillings per room or per house per month depending on the number of rooms in a housing unit.

In general, data on rental values was more readily available compared to data on land sales, albeit we could only access limited written rental/lease agreements i.e. sufficient evidence on market rents was collected through filled-in administered questionnaires and also corroborative evidence obtained from oral interviews. We collected only a limited number of written lease agreements as most of the villagers enter into oral lease agreements rather than formal written leases.

3.3 Building Construction Rates

The assessment of building construction rates was carried out in conformity with *Regulation 55 (3) of The Valuation and Valuers (General) Regulations, 2018*, which states:-

"In assessing building value rates the following considerations shall be taken into account:

(a) the cost of replacing a building or a structure of similar nature, quality of construction, levels of completion in works-in-progress and size based on local market prices of materials and labour charges".

Building construction rates are average rates established by dividing the overall costs of construction of a building by the Gross External Area (GEA) of the building. Basically, the building rates represent the average cost of constructing a replica building per unit area. These construction rates for buildings or structures are established by considering the overall cost of a typical building and dividing it by the total building footprint area of the building. The cost of the building is established by using the Quantity Surveyor's elemental cost estimation approach whereby building elements are priced and an allowance for professional fees is made. However, for traditional buildings and structures which are typically found in the pipeline corridor the costing was undertaken by itemizing cost items and allowing for the cost of labour and transport of building materials to the site where buildings were erected. Labour and transport costs for building materials were also worked out with reference to typical average costs for these items in the villages in question. In this work, a Registered Quantity Surveyor who is familiar with properties located along the pipeline route worked alongside the valuation teams to establish construction costs or Replacement Costs for buildings and structures.

For the different categories of buildings, costs of buildings and structures were established. Several types of buildings and structures were identified and their cost estimated while observing the cost variance based on the type of construction and construction materials. In addition to buildings, other important structures and improvements found in the pipeline route were priced. These additional assets were varied in nature and size and included water ponds, fish ponds, outer kitchens, pit latrines, shower rooms, granaries, fences of all

types, foundations, and so on. These assets were priced based on the item-by-item costing approach. Typical construction costs for buildings, structures and other improvements on the land are presented in Table 4-2.

3.4 Crops and Trees

Crops and trees are currently valued using the Crop Compensation Schedule issued by the Chief Valuer in 2012 and also, the additional list of approved crops and trees from EW/PA sites which was approved by the Chief Valuer on 15th August, 2018. While conducting pipeline route surveys, additional economic trees were found and proposals on their compensation rates are presented in Table 4-7 below. The percentage growth rates to be used for trees and crops found along the pipeline route are in accordance with Regulation 55(6) of The Valuation and Valuers (General) Regulations, 2018 which is as follows:

Seedlings 15%

Early growth 25%

Young 50%

Early maturity 75%

Full maturity 100%

Old stage 30%

"Unlisted" crops and trees are crops and trees which do not appear in either the Compensation Schedule issued by the Chief Valuer in 2012 or the subsequent list of approved compensation rates for additional crops and trees issued by the Chief Valuer for the EACOP project in August, 2018¹.

The estimation of compensation rates for crops and trees is based on either: i) proposed compensation rates which were provided to Whiteknights by District Valuers or; ii) estimates of compensation rates for trees and crops made by considering compensation rates for generic crops and trees found in the 2012 compensation schedule and making due allowance for inflation between 2012 and 2018. Proposed compensation rates for unlisted crops and trees are presented in Table 4-7.

3.5 Graves

Compensation rates for graves were estimated as per the requirements of the Graves (Removal) Act, 1969. Section 9 of the Act states:

"The compensation payable under this section shall be limited to the reasonable expenses incurred in the removal, transportation, reinstatement and re-interment of the grave or dead body and any

¹ Letter Reference No: BA.391/466/01/58 of 15th August 2018

placatory or expiatory rites or other ceremony accompanying such removal and reinterment".

Accordingly, Whiteknights made an item by item estimate of costs related to grave removal and re-burial, depending on whether or not the grave has a construction around it or not. In general, the amount which is payable to the family in relation to "placatory or expiatory rites or other ceremony accompanying such removal and re-interment" is T.Shs. 300,000. In addition, the amount which should be paid to the District Medical Officer (DMO) or Contractor who would engage the District Medical Officer is T.Shs. 200,000 per grave for an ordinary grave. For a grave with a construction, an additional T.Shs. 200,000 is required making the total budget for grave removal T.Shs. 400,000. Itemized grave removal costs are found in Table 4-8. It is noteworthy that where the cost of grave removal is paid to the DMO or a private contractor, there are economies of scale when the number of graves to be removed is large.

The approach which has been adopted for compensating a grave in the EW/PA sites differs slightly from the approach adopted for the pipeline route. While in the EW/PA sites a flat all-inclusive rate of T.Shs. 500,000 is payable for grave removal, in the pipeline route valuations, we have made a split of compensation payable and specified how much of compensation is payable to the PAP and how much is payable to the District Medical Officer (DMO) or a contractor. In the pipeline route, graves with a construction have been considered. While in the EW/PA sites there were no graves with a construction, some of the graves found in the pipeline route have a construction around them, hence the costing of such graves has been done.

3.6 Spiritual Sites

While there is a separate piece of legislation dealing with the removal of graves i.e. The Graves (Removal) Act, 1969, there is no separate piece of legislation dealing with relocation of spiritual sites. Nonetheless, compensation payable in relation to relocation of spiritual sites can be inferred from Section 3(1)(g) reciting one of the Fundamental Principles of The National Land Policy as being:-

"to pay full, fair and prompt compensation to any person whose right of occupancy or recognised long-standing occupation or customary use **of land is revoked or otherwise interfered with to their detriment** by the State under this Act or is acquired under the Land Acquisition Act" (emphasis supplied).

Accordingly, it can be inferred that relocation of a spiritual site constitutes interference with customary use of land. In effect, this makes relocation of a spiritual site qualify as a Part (i) Valuation Item in the Valuation Reports. In addition, since the Chief Valuer has approved valuation reports with compensation for relocation of spiritual sites, the inference seems to be that relocation of spiritual sites is acceptable under Tanzanian law².

Based on common practice, spiritual sites can be relocated if the clan which is the custodian of the spiritual site is engaged and a relocation procedure agreed upon. In general,

² The valuation for compensation containing spiritual sites which was conducted for URANEX (T) Limited in 2016 in Ruangwa District, Lindi Region, was approved by the Chief Valuer.

compensation for the relocation of a spiritual site would cover the cost of a ritual to relocate the site. Typical itemised costs associated with the removal and relocation of spiritual sites are shown in Table 4-9 below.

4 SURVEY RESULTS

4.1 Land Rates

Having carried out the analysis explained above, the results of the land value rates are summarized in

Table 4-1, for Kagera Region wards which are affected by the Project. The proposed land value rates for wards located in Kagera District show a smooth profile throughout, however towards the Tanzania/Uganda border i.e. in the Mtukula Ward, the land value rates have peaked as shown by the profile below. This signifies higher land value rates as compared with the rest of the pipeline corridor in the District. Demand and supply of land for the growing population close to this fast expanding border township, land fertility in the area and the availability of water explain the higher land value rates to a great extent.

The approved land value rate for MCPY-05 located in Missenyi District is T.Shs. 1,100,000, while that for MCPY-06 located in Muleba Districts T.Shs. 880,000.

Table 4-1: Proposed Land Value Rates for Kagera Region Wards

Region	District	Ward	Rate per Acre for Agricultural Land (T.Shs.) ³
KAGERA	Missenyi	1. Mtukula	1,800,000
		2. Nsunga	800,000
		3. Kasambya	1,000,000
		4. Kyaka	1,000,000
		5. Kilimilile	700,000
	Bukoba Rural	1. Kyamulaile	700,000
		2. Mugajwale	650,000
		3. Kaitoke	650,000
		4. Kibirizi	500,000
		5. Rukoma	700,000
	Muleba	1. Ngenge	600,000
		2. Burungura	600,000
		3. Mubunda	650,000
		4. Bisheke	650,000
		5. Kasharunga	800,000
		6. Karambi	800,000
		7. Kyebitembe	750,000
	Biharamulo	1. Nyarubungo	600,000
		2. Nyamigogo	800,000

³ This excludes the 10% transaction cost

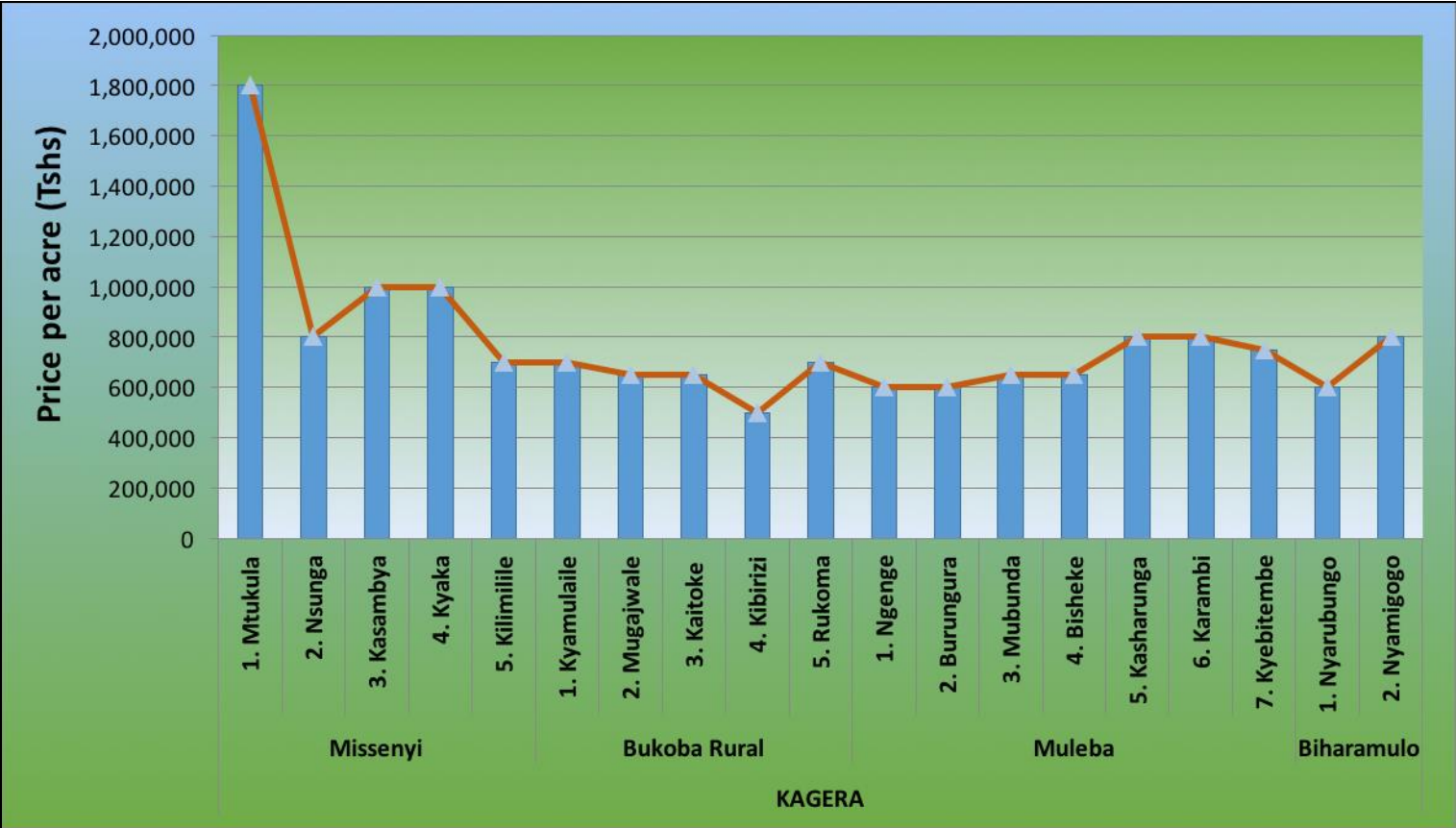









Figure 1: Land Value Rates for Wards affected by the Pipeline Corridor, Kagera Region

4.2 Building Construction Rates

As explained above, rates for buildings, structures and other land developments were estimated by itemizing building costs based on Quantity Surveyor's methods and the results are presented in Table 4-2.

Table 4-2: Construction Rates for Main Building Types

CATEGORY	WALL	ROOF	DOORS & WINDOWS	FLOOR	RATE PER SQ.M. (TSHS.)	PHOTOGRAPH	BUILDING CAT. CODE (B)
CAT. NO. A	Sand Cement	CIS	Wooden/CIS	Cement Floor	472,000		BA.1
				Earth	404,000		BA.2
		Thatch	Wooden/CIS	Cement Floor	412,000		BA.3
				Earth	344,000		BA.4
CAT. NO. B	Burnt mud bricks	CIS	Wooden/CIS	Cement Floor	350,000		BB.1
				Earth	321,000		BB.2
		Thatch	Wooden/CIS	Cement Floor	299,000		BB.3
				Earth	261,000		BB.4
CAT. NO. C	Unburnt mud bricks/ Sun baked clay bricks	CIS	Wooden/CIS	Cement Floor	218,000		BC.1
				Earth	218,000		BC.2
		Thatch	Wooden/CIS	Cement Floor	167,000		

CATEGORY	WALL	ROOF	DOORS & WINDOWS	FLOOR	RATE PER SQ.M. (TSHS.)	PHOTOGRAPH	BUILDING CAT. CODE (B)
		Tembe	Wooden/CIS	Earth	167,000		BC.4
				Earth	62,000		BC.5
CAT. NO. D	Monolithic mud wall	CIS	Wooden/CIS	Cement Floor	192,000		BD.1
				Earth	139,000		BD.2
		Thatch	Wooden/CIS	Cement Floor	90,000		BD.3
				Earth	79,000		BD.4
		Tembe	Wooden/CIS	Earth	52,000		BD.5
		CAT. NO. E	Mud poles &	CIS	Wooden/CIS	Cement Floor	125,000
Earth	120,000					BE.2	
Thatch	Wooden/CIS			Cement Floor	65,000		BE.3



CATEGORY	WALL	ROOF	DOORS & WINDOWS	FLOOR	RATE PER SQ.M. (TSHS.)	PHOTOGRAPH	BUILDING CAT. CODE (B)
				Earth	60,000		BE.4
		Tembe	Wooden/CIS	Earth	48,000		BE.5
CAT. NO. F	Full Suite Grass			Earth	23,000		BF.1




Table 4-3: Construction Rates for Ancillary Buildings, Structures and Other Land Developments

TYPE	WALLING TYPE & SPECIFICATIONS	ROOFING & ASSET MODE	SIZE & COVERINGS	COST	PHOTOGRAPH	STRUCTURE CAT. CODE (S)
Water Ponds	Traditional Water Pond	Open to sky	Small size (<700m ³)	300,000		SA.1
			Medium Size (700m ³ - 1,000m ³)	500,000		SA.2
			Large Size (> 1,000 m ³)	700,000		SA.3
	Purposely Designed fishing Pond	Open to sky	Small size (<250m ³)	600,000		SA.4
			Medium Size (250m ³ - 550m ³)	1,300,000		SA.5
			Large Size (550m ³)	2,000,000		SA.6
Wells and Bore holes	Shallow wells	Traditional	Open	60,000		SB.1
			Covered with concrete slab	150,000		SB.2
	Deep	Traditional	Covered	3,000,000		SB.3
		Modern	Covered with concrete slab and outlet. Casings, submersible electric pumps	12,000,000		SB.4

TYPE	WALLING TYPE & SPECIFICATIONS	ROOFING & ASSET MODE	SIZE & COVERINGS	FLOORING	COST	PHOTOGRAPH	STRUCTURE CAT. CODE (S)
Pit Latrine	Grass / Mat walling	Open to sky, traditional	Compacted earth or arranged brick	Earth screed	300,000		SC.1
	Mud & Poles		Compacted earth or arranged brick	Cement screed	320,000		SC.2
	Cement/ Burnt Bricks		Compacted earth or arranged brick	Cement/ Earth screed	400,000		SC.3
	Mud & Poles	Thatch	Compacted earth or arranged brick	Earth screed	270,000		SC.4
		CIS	Compacted earth or arranged brick	Cement screed	450,000		SC.5
	Bricks	Thatch	Compacted earth or arranged brick	Cement screed	380,000		SC.6
		CIS	Compacted earth or arranged brick		500,000		SC.7

TYPE	WALLING TYPE & SPECIFICATIONS	ROOFING & ASSET MODE	SIZE & COVERINGS	FLOORING	COST	PHOTOGRAPH	STRUCTURE CAT. CODE (S)
Shower room	Grass	Open to sky, traditional	No windows	Earth screed	60,000		SD.1
			No windows	Earth screed	80,000		SD.2
	Mud & Poles	Grass	No windows	Earth screed	150,000		SD.3
		CIS	No windows	Cement screed	250,000		SD.4
	Burnt Bricks	Grass	Window opening only	Earth screed	160,000		SD.5
		CIS	Window opening only	Cement screed	350,000		SD.6

TYPE	WALLING TYPE & SPECIFICATIONS	ROOFING & ASSET MODE	SIZE & COVERINGS	FLOORING	COST	PHOTOGRAPH	STRUCTURE CAT. CODE (S)
Kitchen	Roof supporting poles	Grass/mats/ tarpaulins	none	Earth screed	30,000		SE.1
	Mud & Poles	Grass	Window opening only	Earth screed	120,000		SE.2
		CIS	Window opening only	Earth screed	200,000		SE.3
	Burnt Bricks	Grass	Window openings only	Earth screed	250,000		SE.4
		CIS	small wooden	Earth screed	380,000		SE.5

TYPE	WALLING TYPE & SPECIFICATIONS	ROOFING & ASSET MODE	SIZE & COVERINGS	FLOORING	COST	PHOTOGRAPH	STRUCTURE CAT. CODE (S)
Animal Shed/Coops/Pens	Closely erected Poles	Grass	Ground level	Earth screed	200,000		SF.1
		Grass	Erected on stilts	Earth screed	250,000		SF.2
	Mud & Poles	Grass	Ground level	Earth screed	150,000		SF.3
		CIS	Ground level	Earth screed	250,000		SF.4
	Mabanzi/Wooden Planks walling	Grass	Ground level	Earth screed	380,000		SF.5
		CIS	Erected on stilts	Flooring: Mabanzi / Planks	500,000		SF.6




TYPE	WALLING TYPE & SPECIFICATIONS	ROOFING & ASSET MODE	SIZE & COVERINGS	FLOORING	COST	PHOTOGRAPH	STRUCTURE CAT. CODE (S)
Granary/ Kihenge	Reed/Bamboo woven walls	Grass thatch	Erected on stilts/ground	Medium sized, 2m diameter	180,000		SG.1
Livestock Kraal	Closely erected poles / widely spaced poles with thorn branches	Open to sky	Ground level, earth flooring	Small size - Up to 10m diameter/width	63,000		SH.1
				Medium size 11m to 20m diameter/width	130,000		SH.2
				Large Size - Over 20m diameter /width	200,000		SH.3

Table 4-4: Construction Rates for Boundary Fences and Stone Foundations

WALL / FOUNDATION TYPE	WALLING MATERIAL	BONDING MATERIAL	UNIT OF MEASUREMENT	COST (TSHS.)		STRUCTURE CODE
Solid wall fencing, Size: 2m high	Block wall / Burnt brick	Bonded by cement mortar	Running metre	140,000		SI.1
	stonewall		Running metre	200,000		SI2
	mud brick / monolithic wall	Bonded by mud mortar	Running metre	15,000		SI3
Wire fencing	4 strand barbed wire on concrete poles		Running metre	17,000		SJ.1
	4 strand barbed wire on wooden poles		Running metre	12,000		SJ.2
	Chicken wire mesh		Running metre	30,000		SJ.3
Foundation Wall including foundation footing	Stone (Approximately 3 feet high) with cement mortar	Bonded by cement mortar	Running metre	60,000		SK.1
Foundation Wall including foundation footing	Stone (Approximately 3 feet high) with earth mortar	Bonded by mud mortar	Running metre	40,000		SK.2

4.3 Market Rental Rates

Table 4-5: Market Rental Rates for Residential Properties

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
PART I: KAGERA REGION								
MISSENYI	Mutukula	1	CIS, cement block, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		3	CIS, burnt bricks, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	20 000	40 000	60 000	80 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	20 000	40 000	60 000	80 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
MISSENYI	Nsunga	1	CIS, cement block, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		3	CIS, burnt bricks, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	20 000	40 000	60 000	80 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
MISSENYI	Kassambya	1	CIS, cement block, cement screed floor	Independent Room	25 000	50 000	75 000	100 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		3	CIS, burnt bricks, cement screed floor	Independent Room	25 000	50 000	75 000	100 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	15 000	30 000	45 000	60 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	18 000	36 000	54 000	72 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
MISSENYI	Kyaka	1	CIS, cement block, cement screed floor	Independent Room	25 000	50 000	75 000	100 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	25 000	50 000	75 000	100 000
		3	CIS, burnt bricks, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	15 000	30 000	45 000	60 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	15 000	30 000	45 000	60 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	15 000	30 000	45 000	60 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	15 000	30 000	45 000	60 000
	Kilimilie	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		3	CIS, burnt bricks, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
BUKOBA RURAL	Mugajwale	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	7 000	14 000	21 000	28 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	3 000	6 000	9 000	12 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	3 000	6 000	9 000	12 000
	Buturage	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	7 000	14 000	21 000	28 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	4 000	8 000	12 000	16 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	3 000	6 000	9 000	12 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
BUKOBA RURAL	Kibirizi	1	CIS, cement block, cement screed floor	Independent Room	15,000	30,000	45,000	60,000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	10,000	20,000	30,000	40,000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	10,000	20,000	30,000	40,000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	7,000	14,000	21,000	28,000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	3,000	6,000	9,000	12,000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	3,000	6,000	9,000	12,000
	Rukoma	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	8 000	16 000	24 000	32 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	4 000	8 000	12 000	16 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	3 000	6 000	9 000	12 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
MULEBA	Burungura	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		3	CIS, burnt bricks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	4 000	8 000	12 000	16 000
	Mubunda	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	4 000	8 000	12 000	16 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
MULEBA	Kasharunga	1	CIS, cement block, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	12 000	24 000	36 000	48 000
		3	CIS, burnt bricks, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	12 000	24 000	36 000	48 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	7 000	14 000	21 000	28 000
	Karambi	1	CIS, cement block, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	20 000	40 000	60 000	80 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	10 000	20 000	30 000	40 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	7 000	14 000	21 000	28 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
MULEBA	Kyebitembe	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	7 000	14 000	21 000	28 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	6 000	12 000	18 000	24 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	4 000	8 000	12 000	16 000
	Bisheke	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	7 000	14 000	21 000	28 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	3 000	6 000	9 000	12 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	3 000	6 000	9 000	12 000

District	Ward	Cat. no.	Construction Details	Type of Room	Monthly Rent (Tshs.)			
					One Room	Two Rooms	Three Rooms	Four Rooms
BIHARAMULO	Nyarubungo	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	7 000	14 000	21 000	28 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	4 000	8 000	12 000	16 000
	Nyamigogo	1	CIS, cement block, cement screed floor	Independent Room	15 000	30 000	45 000	60 000
		2	Grass thatch, cement blocks, cement screed floor	Independent Room	N/A			
		3	CIS, burnt bricks, cement screed floor	Independent Room	10 000	20 000	30 000	40 000
		4	CIS, burnt bricks, earth/mud screed floor	Independent Room	7 000	14 000	21 000	28 000
		5	Grass, burnt bricks, earth/mud screed floor	Independent Room	5 000	10 000	15 000	20 000
		6	Grass thatch, unburnt bricks, earth/mud screed floor	Independent Room	3 000	6 000	9 000	12 000
		7	Grass thatch, mud and poles, earth/mud screed floor	Independent Room	3 000	6 000	9 000	12 000

Table 4-6: Market Rental Rates for Industrial, Retail and Office Space

Type of Property	Market Monthly Rent (T.Shs.)
Timber Yard/Workshops	150,000
Shop "Frame" Large (Between 15 and 30 sq.m.)	70,000
Shop "Frame" Medium (between 6 and 15 sq.m.)	60,000
Shop "Frame" Small (below 6 sq.m.)	50,000
Offices (Rate per Square Metre)	7,000

4.4 Unlisted Crops and Trees

Table 4-7: Proposed Compensation Rates for Unlisted Crops and Trees

Name	Latin Name	Place Found	Potential Use	Proposed Rate (T.Shs.)	Remarks
		Kagera			
Binzari/Curry Powder tree		Yes	Spice tree, Curry powder	29,088	Valued as mlimao tree at 20,000/= with inflation adjustment at 45.44%. ⁴⁴
Kijani pori		Yes	Spice	1,000	Rate per cluster as proposed by DVs in Kagera Region.
Mibani		Yes	Pine tree	101,808	Valued as Msonobari in Lake Zone (2012) 70,000/- with inflation adjustment at 45.44%
Mihuwe/Miuwe		Yes	Tree for boat paddles	15,000	Rate per tree as proposed by DV's in Kagera Region.
Mikasia		Yes	Fuel wood	0	Valued with the land. Ordinarily found tree of no particular economic value.
Mikunyu		Yes	Fuel wood	0	Valued with the land. Ordinarily found tree of no particular economic value.
Mitoma		Yes	Fuel wood	0	Valued with the land. Ordinarily found tree of no particular economic value.
Mpodo		Yes	Hard wood	101,808	Valued as hard wood tree in Lake Zone (2012) at 70,000/= adjusted for inflation at 45.44%.
Mtoma		Yes	Fuel wood	0	Valued with the land. Ordinarily found tree of no particular economic value.
Nzungu		Yes	Fuel wood	0	Valued with the land. Ordinarily found tree of no particular economic value.
Vanilla		Yes	Crop (spice)	10,000	Rate per stem. Rate suggested by DVs for Kagera Region.

⁴⁴ Monthly Inflation rates for the year 2018 are as follows: January (4.0%), February (4.1%), March (3.9%), April (3.8), May (3.6%), June (3.4%), July (3.3%), August (3.3%), September (3.4%) and October (3.2%). The average inflation rate for the period January to October, 2018 is therefore 3.6%. Source: National Bureau of Statistics. Corresponding inflation rates for 2013 to 2018 are: 2013 (12.0%), 2014 (5.75%), 2015 (4.75%), 2016 (6.25) and 2017 (6.5%). The compounded cumulative inflation factor for 2013 to October 2018 is, therefore, 45.44%.

4.5 Graves

Standard grave size: 6 feet depth, 2.5 metres wide, 8 feet long.⁵

Table 4-8: Proposed Compensation Rates for Graves

S/n	Expenditure Item			(T.Shs.)
(a) Grave Without a Construction				
1. Amount Payable to Custodian of the Grave				
	Amount Payable to Family of the deceased for Placatory and Expiatory Rites, and ceremony.			300,000
2. Amount Payable to District Medical Officer/Graves Removal Contractor				
	Amount payable to District Medical Officer to cover exhumation of the dead body and re-interment costs			200,000
				Total
				500,000
(b) Grave With a Construction				
1. Amount Payable to Custodian of the Grave				
	Amount Payable to Family of the deceased for Placatory and Expiatory Rites, and ceremony.			300,000
2. Amount Payable to District Medical Officer/Graves Removal Contractor				
	Amount payable to District Medical Officer to cover exhumation of the dead body and re-interment costs, as above.			
				Sub-Total
				200,000
Add: Amount for Grave Re-Construction				
	Expenditure Item	Units	Unit Rate	
	Matofali (Blocks)	50 blocks	1,000	50,000
	Cement Bags	3 Bags	15,000	45,000
	Kokoto/Gravel	Debe/Cans 3	3,000	9,000
	Mchanga/Sand	Debe/Cans 4	1,000	4,000
	Maji/Water	Dumu/20 litre drums 4	500	2,000
	Msalaba/Headstone/Monument			25,000
	Labour			
	Kujenga Tofali moja/Construction Rate per Block	50 Blocks	500	25,000
	Zege/Concrete			20,000
	Plastering of the grave			20,000
				Sub-Total
				200,000
	Total Amount Payable to the DMO			400,000

⁵ International Cemetery, Cremation and Funeral Association, www.iccfa.com. Last viewed on 1st November, 2018.

4.6 Spiritual Sites

To inform the proposed compensation rate for a spiritual site⁶ provided in Table 4-9, the average number of clan members taking part in re-location of a spiritual site has been estimated as 20 people.

Table 4-9: Proposed Compensation Rate for a Spiritual Site

S/n	Expenditure Item	T.Shs.
1.	Cow/Sacrificial beast	500,000
2.	Rice, 30 kg.	60,000
3.	Cooking oil, 1 x 10 litre Cans @ T.Shs. 20,000	20,000
4.	Local brew, 10 buckets, @ T.Shs 10,000	100,000
5.	High Priest/priestess	200,000
6.	Drinking water, 5 cartons @ T.Shs. 6,000	30,000
7.	Fuel wood	10,000
8.	Sundries (salt, water for cooking purposes, hire of cooking equipment, etc.)	30,000
	Total	950,000

4.7 4.7 Disturbance Allowance and Interest Rates

The disturbance allowance is paid as the average percentage rate of interest offered by Commercial Banks on Fixed Deposit Reserves (FDR) annually applied to the total value of the real property for 12 months as per Regulation 15 of Supplement No 11 (2018) Subsidiary Legislation to The Valuation and Valuers Registration Act (Act No.7 of 2016). In this case, 5.67% average interest rate has been adopted as the current FDR rate as of November, 2018⁷. Up-to-date data on interest rates on 12 months Fixed Deposit Reserves (FDR) was collected from eleven (11) major commercial banks on 16th November, 2018⁸. Following financial sector reforms that are being implemented by the GoT, the financial sector has liberalised and, accordingly, the number of commercial banks has increased drastically over the past few years and there is stiff competition in the money market. This is illustrated in Table 4-10 below which shows a divergence in interest rates charged by commercial banks ranging between 3% and 9.75% per annum.

⁶ This proposed compensation rate is based on an average 20 clan members taking part in re-location of a spiritual site.

⁷ While it is acknowledged, in some valuations, 8% has been adopted as the average interest rate on FDR's offered by commercial banks, the data analysis carried out above shows an 8% interest on FDR is not currently supported by the market.

⁸ The use of commercial bank rates is motivated by the fact that the Central Bank of Tanzania does not arrange for or take fixed deposits.

Table 4-10: Average Interest Rate on Fixed Deposit Reserve

BANK	FDR AMOUNT (SHS. MILLION)					
	0-50	50-100	100-200	200-300	300-400	400-500
	Interest Rates					
DTB	6.00%	7.00%	7.50%	8.50%	8.50%	8.50%
CRDB	3.00%	3.00%	4.00%	4.00%	4.00%	4.00%
NMB	5.00%	6.00%	7.00%	Contact Treasury	Contact Treasury	Contact Treasury
NBC	3.50%	3.60%	3.70%	3.80%	3.80%	3.80%
EXIM	5.50%	6.00%	6.00%	6.00%	6.00%	6.00%
STANBIC	3.00%	3.00%	3.20%	3.20%	3.20%	3.20%
AMANA	5.50%	6.00%	6.50%	7.50%	7.50%	7.50%
KCB	3.80%	4.00%	5.00%	6.00%	6.00%	6.00%
TIB	6.00%	7.50%	-	-	-	-
BOA	5.00%	5.00%	5.00%	6.50%	6.50%	6.50%
EQUITY	5.50%	8.35%	8.55%	8.55%	9.75%	9.75%
MEAN	4.71%	5.40%	5.65%	6.01%	6.14%	6.14%
OVERALL MEAN	5.67%					

5 KEY OBSERVATIONS AND CONCLUSION

Having studied the nature of immovable assets which are likely to be affected by the EACOP Project in the pipeline corridor, and examined in detail the prevailing market conditions for these assets, Whiteknights has developed proposed compensation rates for land and buildings, "unlisted" crops and trees, graves and spiritual sites. In formulating proposed land compensation rates to be used for the Pipeline route, approved compensation rates for EW/PA sites were used as benchmarks in deriving land values where the pipeline route is in close proximity to an EW/PA site.

In general, our survey results indicate coherence in values across wards and the occasional value "spikes" and troughs are explicable. The survey results also seem to conform to findings of other studies on land values in the districts covered by the study⁹. On account of this, District Valuers for Missenyi, Bukoba Rural, Muleba and Biharamulo Districts in Kagera Region generally found our survey results acceptable.

Whiteknights is therefore confident that the survey results are valid and mirror the prevailing or true underlying state of the property markets and sub-markets in the eight wards covered by the study. We therefore, unreservedly, put forward our proposal on compensation rates for Kagera Region for approval by the Chief Valuer as per the legal requirements for endorsement of compensation rates as specifically set out in *The Valuation and Valuers (General) Regulations, 2018*.

⁹ Other studies include the Chief Valuer's Research on Land Rates in Tanzania, 2016.

6 CERTIFICATION OF THE MARKET STUDY

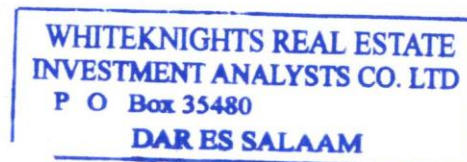
This market study was conducted by **WHITEKNIGHTS REAL ESTATE INVESTMENT ANALYSTS COMPANY LIMITED** as the Project Valuers.

We confirm, with utmost probity, to have carried out the research and presented factual information which we collected in the field, and subsequently analysed to arrive at the survey results, subject to certain underlying assumptions which we had to make in some instances. The market study has been conducted in full compliance with best international practice, ethical behaviour and the specific legal dictates of the **Valuation and Valuers (General) Regulations, 2018**.

CERTIFICATION

This market research has been conducted by Dr. Medard Lucas Geho and Dr. Cletus Eligius Ndjovu, both being Fully Registered Valuers, and Dr. Medard Zephyryn Mushumbusi a Fully Registered Quantity Surveyor and is signed for and on behalf of **WHITEKNIGHTS REAL ESTATE INVESTMENT ANALYSTS COMPANY LIMITED** by:

.....
Dr. Medard Lucas Geho



Ph.D. (Reading, United Kingdom, 1997); M.Sc. Land Management (Reading, United Kingdom, 1992); Adv. Dipl. LMV (Ardhi Institute, Dar es Salaam, 1984)

Fellow - Tanzania Institution of Valuers and Estate Agents (TIVEA); Member - African Real Estate Society (AFRES); FRS (T)

Fully Registered and Licensed Valuation Surveyor (NCPS), Reg. No. 165 of 1990

Appendix A: Land Rates for EACOP Early Works/Priority Area Sites

MCPY/ District	Type of Land	DV's Rate per Acre	Proposed Rate per Acre (T.Shs.)	Rate + 10% Transaction Costs (T.Shs.)
MCPY-05: Missenyi	Peri-urban, agricultural	500,000-1,000,000	1,000,000	1,100,000
MCPY-06: Muleba	Agricultural	500,000-800,000	800,000	880,000
MCPY-07: Chato	Agricultural	400,000-500,000	500,000	550,000
MCPY-08: Bukombe	Building plots, urbanised	No D.V.	800,000	880,000
MCPY-09 and CY-KP701: Nzega	Agricultural	400,000-800,000	850,000	935,000
MCPY-10: Igunga	Rural, agricultural	No D.V.	400,000	440,000
MCPY-11: Singida	Agricultural, fertile, ripe for development	450,000	500,000	550,000
MCPY-12: Kondoa	Agricultural	350,000-600,000	500,000	550,000
1MC-13 and PY-13: Kiteto	Agricultural, (fertile)	600,000-1,200,000	1,200,000	1,320,000
MCPY-14: Kilindi	Rural, remote	50,000-80,000	350,000	385,000
MCPY-15: Handeni	Agricultural, Ripe for development	300,000-800,000	800,000	880,000
MCPY-16: Muheza	Commercial farming	700,000-1,000,000	1,250,000	1,375,000

Appendix B: Land Value Maps for Affected Wards in Kagera Region

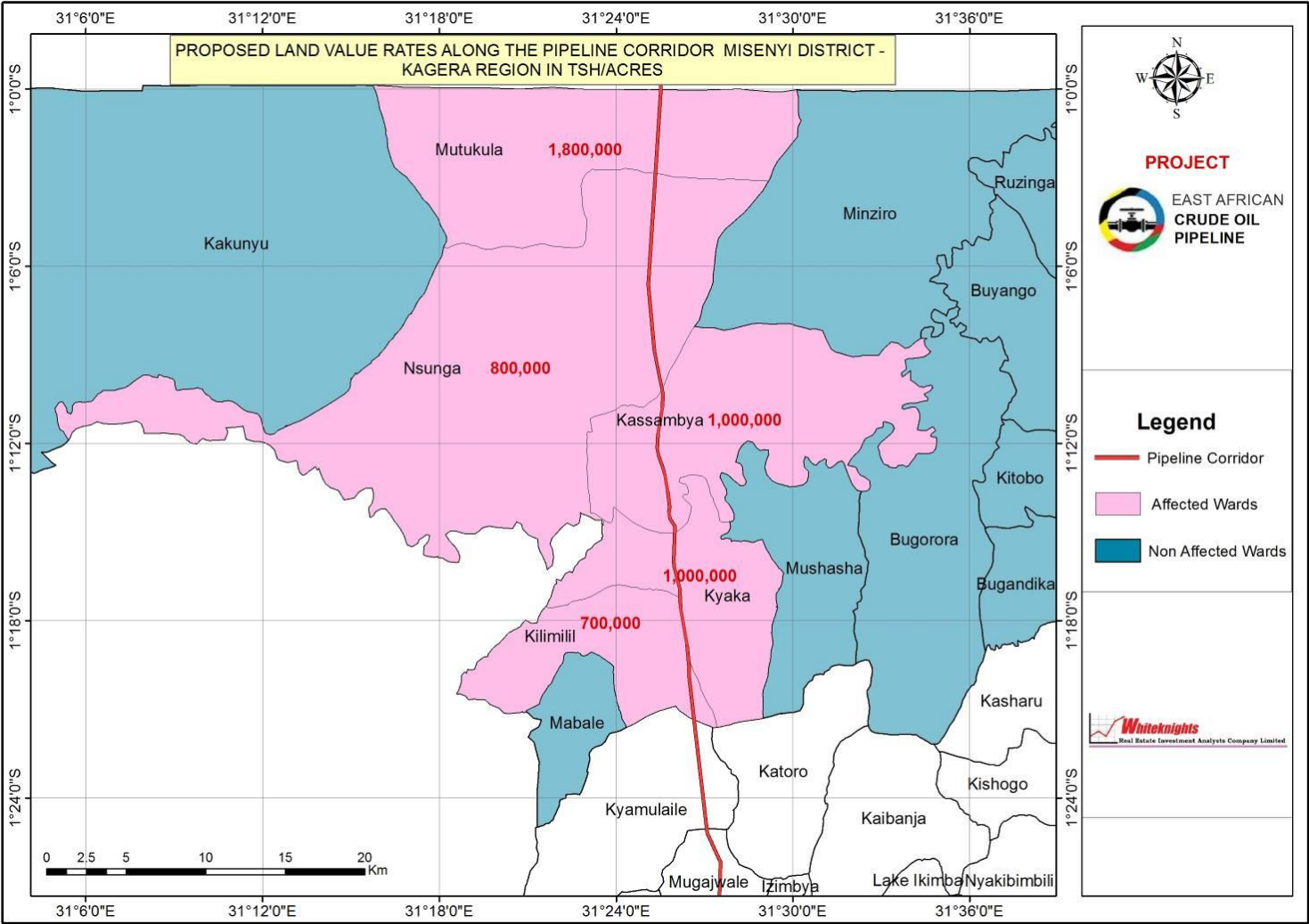


Figure 2: Land Value Map for Missenyi District, Kagera Region

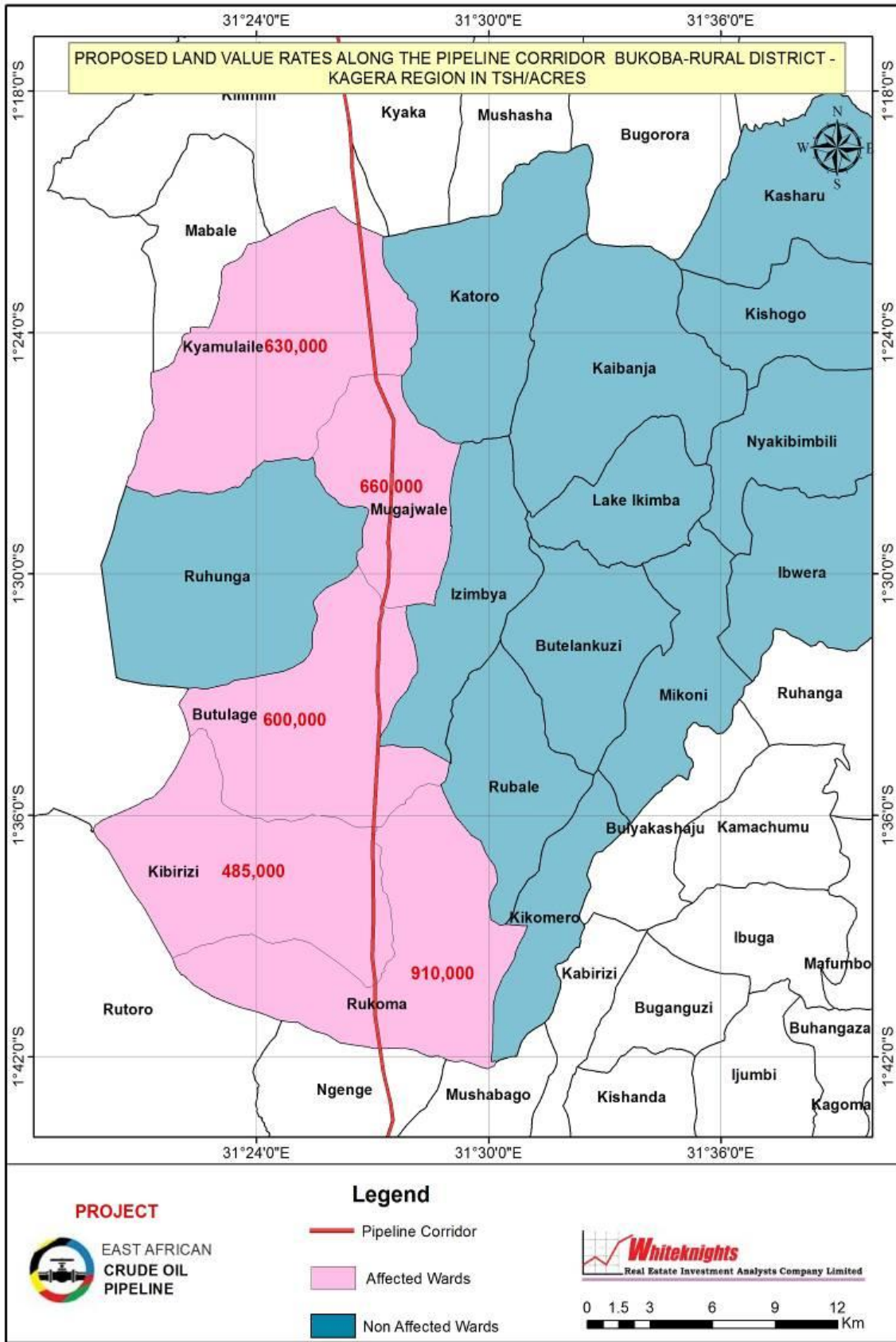


Figure 3: Land Value Map for Bukoba Rural District, Kagera Region

Compensation Rates Report

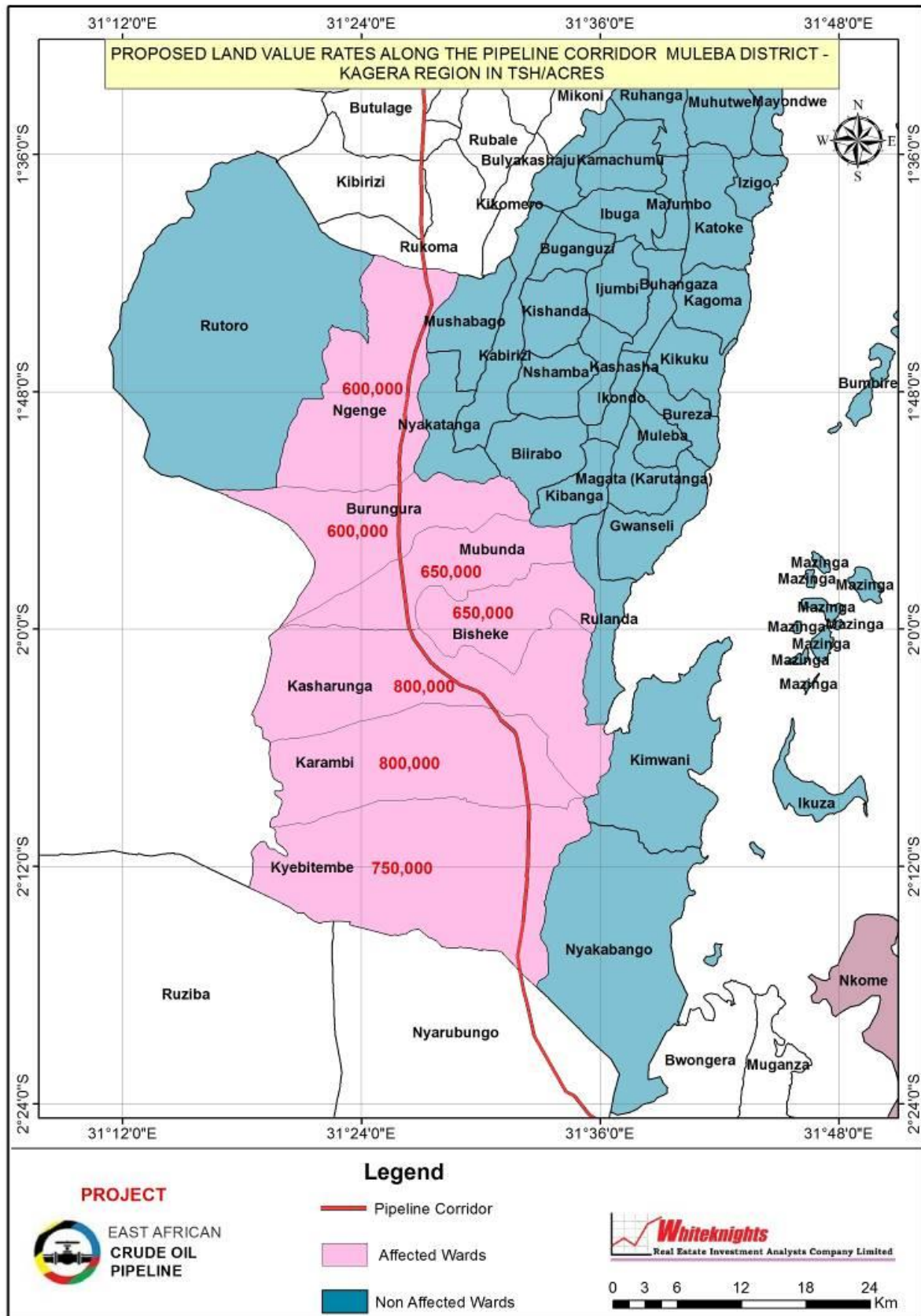


Figure 4: Land Value Map for Muleba District, Kagera Region

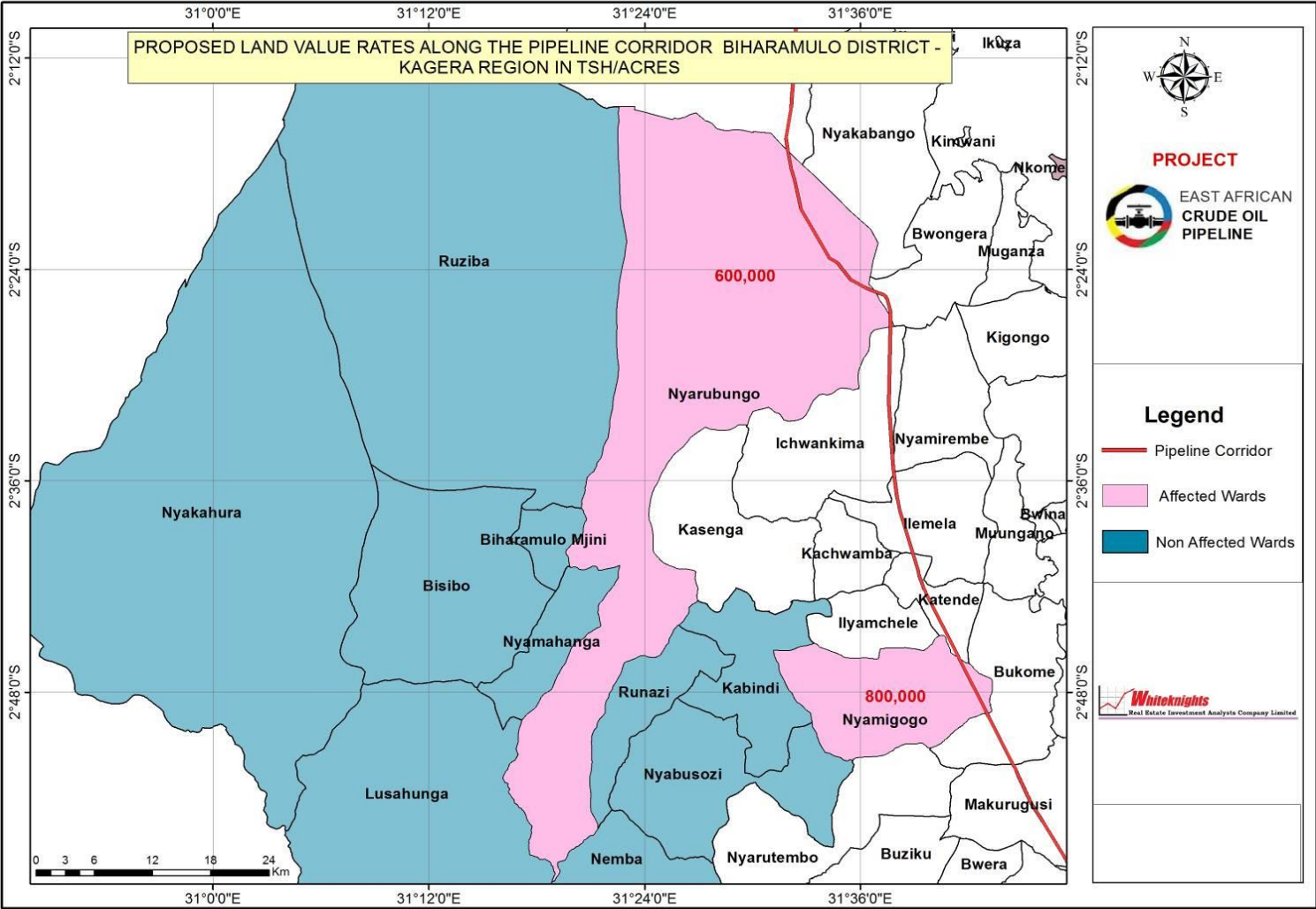


Figure 5: Land Value Map for Biharamulo District, Kagera Region

Appendix C: Schedule of 2012 Crops Rates and Approved Unlisted Tree Rates for 2018

CROP RATES IN LAKE ZONE (KANDA YA ZIWA)

I									
TABLE NO.1D - PERENNIAL CROPS -SUMMARY OF VALUE RATES									
CROP VALUE IN T.SHS.									
	TYPE OF CROP	Per Hectare		Per Acre	Per Stem or Cluster				
S/N.		Plant Popula- tion per Hectare	Average Cared Matured Crop	Plant Popula- tion per Acre	Average Cared Matured Crop	Seedling Crop (30%)	Mature crop (60%)	Optimum producing crop (100%)	Aged Crop (15%)
A	CASH CROPS								
1	Coconut (Minazi)	125.00	22,500,000.00	50.61	9,109,311.74	54,000.00	108,000.00	180,000.00	27,000.00
2	Cashewnuts (Mikorosho)	100.00	6,000,000.00	40.49	2,429,149.80	18,000.00	36,000.00	60,000.00	9,000.00
3	Oil palm (Michikichi)	150.00	15,000,000.00	60.73	6,072,874.49	30,000.00	60,000.00	100,000.00	15,000.00
4	Sugar cane (Miwa)	12,500.00	37,500,000.00	5,060.73	15,182,186.23	900.00	1,800.00	3,000.00	450.00
5	Cloves (Mikarafuu)	200.00	12,000,000.00	80.97	4,858,299.60	18,000.00	36,000.00	60,000.00	9,000.00
6	Msufi	200.00	10,000,000.00	80.97	4,048,583.00	15,000.00	30,000.00	50,000.00	7,500.00
7	Sisal	5,000.00	15,000,000.00	2,024.29	6,072,874.49	900.00	1,800.00	3000	450.00
8	Cocoa	1,000.00	3,000,000.00	404.86	1,214,574.90	900.00	1,800.00	3000	450.00
9	Coffee (Arabica)	2,000.00	60,000,000.00	809.72	24,291,497.98	9,000.00	18,000.00	30000	4,500.00
10	Coffee (Robusta)	2,000.00	50,000,000.00	809.72	20,242,914.98	7,500.00	15,000.00	25000	3,750.00
B	FRUITS								
1	Ovacado (Mparachichi)	100.00	6,000,000.00	40.49	2,429,149.80	18,000.00	36,000.00	60,000.00	9,000.00
2	Tangarine (Mchenza)	250.00	602,500.00	101.21	243,927.13	723.00	1,446.00	2,410.00	361.50
3	Oranges (Machungwa)	250.00	11,500,000.00	101.21	4,655,870.45	13,800.00	27,600.00	46,000.00	6,900.00
4	Lemon (Ndimu)	250.00	5,500,000.00	101.21	2,226,720.65	6,600.00	13,200.00	22,000.00	3,300.00
5	Mlimau (Lemon)	250.00	5,500,000.00	101.21	2,226,720.65	6,600.00	13,200.00	22,000.00	3,300.00
6	Mango (mwembe)	75.00	7,500,000.00	30.36	3,036,437.25	30,000.00	60,000.00	100,000.00	15,000.00

7	Mango(Mwembe) improved	150.00	32,250,000.00	60.73	13,056,680.16	64,500.00	129,000.00	215,000.00	32,250.00
8	Guava (Mpera)	150.00	3,000,000.00	60.73	1,214,574.90	6,000.00	12,000.00	20,000.00	3,000.00
9	Jackfruit (Mifenesi)	75.00	3,525,000.00	30.36	1,427,125.51	14,100.00	28,200.00	47,000.00	7,050.00
10	Bananas(Migomba 6)	750.00	24,000,000.00	303.64	9,716,599.19	9,600.00	19,200.00	32,000.00	4,800.00
11	Pinaples (Minanasi)	10,000.00	15,000,000.00	4,048.58	6,072,874.49	450.00	900.00	1,500.00	225.00
12	Pawpaw (Mipapai)	800.00	16,000,000.00	323.89	6,477,732.79	6,000.00	12,000.00	20,000.00	3,000.00
13	Mikweme (Oyster nuts)	150.00	2,700,000.00	60.73	1,093,117.41	5,400.00	10,800.00	18,000.00	2,700.00
14	Komamanga	250.00	3,000,000.00	101.21	1,214,574.90	3,600.00	7,200.00	12,000.00	1,800.00
15	Mistafeli (Custard apple)	350.00	8,400,000.00	141.70	3,400,809.72	7,200.00	14,400.00	24,000.00	3,600.00
16	mitende (Date palm)	125.00	4,000,000.00	50.61	1,619,433.20	9,600.00	19,200.00	32,000.00	4,800.00
17	passion fruits	11,111.00	111,110,000.00	4,498.38	44,983,805.67	3,000.00	6,000.00	10,000.00	1,500.00
C	SPICES								
1	Cardamon (Iliki)	800.00	8,000,000.00	323.89	3,238,866.40	1500	3,000.00	10,000.00	750.00
2	Cinamomum (Mdalasini)	1,500.00	15,000,000.00	607.29	6,072,874.49	1500	3,000.00	10,000.00	750.00
3	Black pepper (Pilipili Manga)	1,500.00	10,500,000.00	607.29	4,251,012.15	2400	4,800.00	7,000.00	1,200.00
4	Tangawizi (Ginger)	5,000.00	20,000,000.00	2,024.29	8,097,165.99	1500	3,000.00	4,000.00	750.00
5	Macademia nuts	100.00	4,500,000.00	40.49	1,821,862.35	13500	27,000.00	45,000.00	6,750.00
6	Flowers					1500	3,000.00	5,000.00	750.00
7	Arovela					1200	2,400.00	4,000.00	600.00
8	Rosela					1050	2,100.00	3,500.00	525.00

II									
TABLE NO. 2D - SEASONAL CROPS-SUMMARY OF VALUE RATES									
MARKET VALUE IN T.SHS.									
	TYPE OF CROP	Per Hectare		Per Stem or Cluster			Per Stem or Cluster		
S/N.		Plant Popula- tion per Hectare	Average Cared Matured Crop	Plant Popula- tion per Acre	Average Cared Matured Crop	Seedling Crop (30%)	Mature crop (60%)	Optimum producing crop (100%)	Aged Crop (15%)
A	CASH CROPS								
1	Tobacco	13,000.00	8,645,000.00	5,263.16	3,500,000	378	756	665	189.00
2	Cotton	40,000.00	9,880,000.00	16,194.33	4,000,000	255	510	247	127.50
B	CEREALS								
1	Maize (Mahindi)	10,000.00	1,729,000.00	4049	700,000	51.87	103.74	172.9	25.94
2	Paddy (Mpunga)	10,000.00	3,952,000.00	4049	1,600,000	118.56	237.12	395.2	59.28
3	Sorghum (Mtama)	10,000.00	1,482,000.00	4049	600,000	44.46	88.92	148.2	22.23
4	Ulezi	10,000.00	1,729,000.00	4049	700,000	51.87	103.74	172.9	25.94
5	Uwele	10,000.00	1,729,000.00	4049	700,000	51.87	103.74	172.9	25.94
C	BEANS								
1	Choroko	10,000.00	2,470,000.00	4049	1,000,000	74.1	148.2	247	37.05
2	Beans (Maharage)	10,000.00	1,803,100.00	4049	730,000	54.093	108.186	180.31	27.05
3	Mbaazi	10,000.00	1,111,500.00	4049	450,000	33.345	66.69	111.15	16.67
4	Kunde	10,000.00	1,136,200.00	4049	460,000	34.086	68.172	113.62	17.04
5	Njegere	10,000.00	2,470,000.00	4049	1,000,000	74.1	148.2	247	37.05
6	Bambara nuts (Njugumawe)	10,000.00	3,952,000.00	4049	1,600,000	118.56	237.12	395.2	59.28
7	Fiwi nuts	10,000.00	3,952,000.00	4049	1,600,000	118.56	237.12	395.2	59.28
8	Dengu	10,000.00	1,482,000.00	4049	600,000	44.46	88.92	148.2	22.23
D	MIZIZI								

1	Cocoyams (Magimbi)	10,000.00	1,729,000.00	4,049	700,000	51.87	103.74	172.9	25.94
2	Cassava(Mihogo)	10,000.00	1,729,000.00	4,049	700,000	51.87	103.74	172.9	25.94
3	Sweet potatoes (Viazi vitamu)	10,000.00	1,235,000.00	4,049	500,000	37.05	74.1	123.5	18.53
4	Irish Potatoes (Viazi mviringo)	10,000.00	2,964,000.00	4,049	1,200,000	88.92	177.84	296.4	44.46
5	Viazi vikuu (yams)	10,000.00	901,550.00	4,049	365,000	27.0465	54.093	90.155	13.52
E	VEGETABLES								
1	Bamia	10,000.00	7,500,000.00	4,049	3,036,437.25	225	450	750	112.50
2	Bilinganya	10,000.00	10,000,000.00	4,049	4,048,583.00	300	600	1000	150.00
3	Kabichi	10,000.00	10,000,000.00	4,049	4,048,583.00	300	600	1000	150.00
4	Karoti	10,000.00	5,000,000.00	4,049	2,024,291.50	150	300	500	75.00
5	Koliflawa	10,000.00	10,000,000.00	4,049	4,048,583.00	300	600	1000	150.00
6	Maboga	10,000.00	12,000,000.00	4,049	4,858,299.60	360	720	1200	180.00
7	Matango	10,000.00	10,000,000.00	4,049	4,048,583.00	300	600	1000	150.00
8	Matikiti maji	10,000.00	30,000,000.00	4,049	12,145,748.99	900	1800	3000	450.00
9	Mchicha	10,000.00	720,000.00	4,049	291,497.98	21.6	43.2	72	10.80
10	Nyanya	10,000.00	10,000,000.00	4,049	4,048,583.00	300	600	1000	150.00
11	Pilipili hoho	10,000.00	20,000,000.00	4,049	8,097,165.99	600	1200	2000	300.00
12	Pilipili kali	10,000.00	4,000,000.00	4,049	1,619,433.20	120	240	400	60.00
13	Nyanya chungu	10,000.00	6,000,000.00	4,049	2,429,149.80	180	360	600	90.00
14	kisamvu	10,000.00	9,000,000.00	4,049	3,643,724.70	270	540	900	135.00
15	Saladi/Lecture/Chinese	10,000.00	12,350,000.00	4,049	5,000,000.00	370.5	741	1235	185.25
16	Vitungu maji/Onion	10,000.00	14,820,000.00	4,049	6,000,000.00	444.6	889.2	1482	222.30
17	Vitungu saumu/Garlic	10,000.00	24,700,000.00	4,049	10,000,000.00	741	1482	2470	370.50
18	Matembele	10,000.00	494,000.00	4,049	200,000.00	14.82	29.64	49.4	7.41
F	OIL SEEDS								

1	Sunflower (Alizeti)	10,000.00	1,803,100.00	4,049	730,000.00	54.093	108.186	180.31	27.05
2	Ground Nuts (Karanga)	10,000.00	1,235,000.00	4,049	500,000.00	37.05	74.1	123.5	18.53
3	Ufuta (simsim)	10,000.00	2,470,000.00	4,049	1,000,000.00	74.1	148.2	247	37.05
4	Castor Nyonyo	10,000.00	864,500.00	4,049	350,000.00	25.935	51.87	86.45	12.97

III **TABLE NO.3D SUMMARY - FOREST PERENNIAL CROPS**

TYPE OF CROP		Per Stem							
S/N.	TYPE OF CROP	Seedling Crop (30%)	Mature crop (60%)	Mature trees (100%)					
1	Shade trees	6,000.00	12,000.00	20,000.00					
2	Miti ya mbao Ngumu i.e Mninga	13,500.00	27,000.00	45,000.00					
3	Mfuru	15,000.00	30,000.00	50,000.00					
4	Mpira	9,600.00	19,200.00	32,000.00					
5	Mkungu	12,600.00	25,200.00	42,000.00					
6	Miboyo	13,500.00	27,000.00	45,000.00					
7	Mwarobaini	7,500.00	15,000.00	25,000.00					
8	Mng'ong'o	9,000.00	18,000.00	30,000.00					
9	Mpira(rubber)	9,600.00	19,200.00	32,000.00					
10	Mkrismasi	6,900.00	13,800.00	23,000.00					
11	Mpilipili (mti)	28,500.00	57,000.00	95,000.00					
12	Lucina trees	7,800.00	15,600.00	26,000.00					
13	Ashok trees	6,000.00	12,000.00	20,000.00					
14	Misonobari	21,000.00	42,000.00	70,000.00					
15	Gravelia	13,500.00	27,000.00	45,000.00					
16	Mikaratus	13,500.00	27,000.00	45,000.00					
17	Mgundi(Gum)	6,000.00	12,000.00	20,000.00					

18	Mitiki	21,000.00	42,000.00	70,000.00					
19	Topetope	6,000.00	12,000.00	20,000.00					
20	Michongoma	600.00	1,200.00	2,000.00					
21	Mjohoro	7,800.00	15,600.00	26,000.00					
22	Mnyaa	1,200.00	2,400.00	4,000.00					
23	Mtangalala	3,900.00	7,800.00	13,000.00					
24	Mkwaju	21,000.00	42,000.00	70,000.00					
25	Mlonge	9,000.00	18,000.00	30,000.00					
26	Mbuyu	12,000.00	24,000.00	40,000.00					
27	Sungwi	4,500.00	9,000.00	15,000.00					
28	Mkoma	4,500.00	9,000.00	15,000.00					
29	Mbula	13,500.00	27,000.00	45,000.00					
30	Mjani mapana	6,000.00	12,000.00	20,000.00					
31	Panga uzazi	6,000.00	12,000.00	20,000.00					
32	Albizi	4,500.00	9,000.00	15,000.00					
33	Mhale	6,000.00	12,000.00	20,000.00					
34	Mijune	6,000.00	12,000.00	20,000.00					
35	Muzo	1,500.00	3,000.00	5,000.00					
36	Mshasha	6,000.00	12,000.00	20,000.00					
37	Msomoro	4,500.00	9,000.00	15,000.00					
38	Mjujune	3,000.00	6,000.00	10,000.00					
39	Mfausiku (Mtangala)	4,500.00	9,000.00	15,000.00					
40	Mlumba	9,000.00	18,000.00	30,000.00					

CROP RATES IN NORTHERN ZONE (KANDA YA KASKAZINI)

I									
TABLE NO.1C - PERENNIAL CROPS -SUMMARY OF VALUE RATES									
CROP VALUE IN T.SHS.									
	TYPE OF CROP	Per Hectare		Per Acre	Per Stem or Cluster				
S/N.		Plant Popula- tion per Hectare	Average Cared Matured Crop	Plant Popula- tion per Acre	Average Cared Matured Crop	Seedling Crop (30%)	Mature crop (60%)	Optimum producing crop (100%)	Aged Crop (15%)
A	CASH CROPS								
1	Mnazi	125.00	18,750,000.00	50.61	7,591,093	45000	90000	150000	22,500.00
2	Mikorosho	100.00	9,000,000.00	40.49	3,643,725	27000	54000	90000	13,500.00
3	Michikichi	150.00	4,800,000.00	60.73	1,943,320	9600	19200	32000	4,800.00
4	Miwa (8 hadi 10)	12,500.00	62,500,000.00	5,060.73	25,303,644	1500	3000	5000	750.00
5	Misufi	200.00	10,000,000.00	80.97	4,048,583	15000	30000	50000	7,500.00
6	Katani	5,000.00	25,000,000.00	2,024.29	10,121,457	1500	3000	5000	750.00
7	Cocoa	1,000.00	25,000,000.00	404.86	10,121,457	7500	15000	25000	3,750.00
8	Kahawa (Arabika)	2,000.00	120,000,000.00	809.72	48,582,996	18000	36000	60000	9,000.00
B	FRUITS								
1	Miparachichi (Asili)	100.00	8,000,000.00	40.49	3,238,866.40	24,000.00	48,000.00	80,000.00	12,000.00
2	Miparachichi (Improved)	150.00	9,750,000.00	60.73	3,947,368.42	19,500.00	39,000.00	65,000.00	9,750.00
3	Chenza	250.00	8,750,000.00	101.21	3,542,510.12	10,500.00	21,000.00	35,000.00	5,250.00
4	Chungwa (Asili)	250.00	15,000,000.00	101.21	6,072,874.49	18,000.00	36,000.00	60,000.00	9,000.00
5	Chungwa (Improved)	277.00	16,620,000.00	112.15	6,728,744.94	18,000.00	36,000.00	60,000.00	9,000.00
6	Ndimu (Asili)	250.00	5,000,000.00	101.21	2,024,291.50	6,000.00	12,000.00	20,000.00	3,000.00
7	Ndimu (Improved)	250.00	5,000,000.00	101.21	2,024,291.50	6,000.00	12,000.00	20,000.00	3,000.00
8	Limao (Asili)	250.00	5,000,000.00	101.21	2,024,291.50	6,000.00	12,000.00	20,000.00	3,000.00
9	Limao (Improved)	250.00	5,000,000.00	101.21	2,024,291.50	6,000.00	12,000.00	20,000.00	3,000.00

10	Mwembe (Asili)	75.00	7,125,000.00	30.36	2,884,615.38	28,500.00	57,000.00	95,000.00	14,250.00
11	Mwembe (Dodo)	100.00	15,000,000.00	40.49	6,072,874.49	45,000.00	90,000.00	150,000.00	22,500.00
12	Mwembe (Improved)	150.00	24,000,000.00	60.73	9,716,599.19	48,000.00	96,000.00	160,000.00	24,000.00
13	Mpera (Asili)	150.00	1,500,000.00	60.73	607,287.45	3,000.00	6,000.00	10,000.00	1,500.00
14	Mpera(Improved)		-	-	-	9,900.00	19,800.00	33,000.00	4,950.00
15	Mifenesi	75.00	3,000,000.00	30.36	1,214,574.90	12,000.00	24,000.00	40,000.00	6,000.00
16	Migomba (Improved)		-	-	-	15,000.00	30,000.00	50,000.00	7,500.00
17	Migomba (Asili)	750.00	33,750,000.00	303.64	13,663,967.61	13,500.00	27,000.00	45,000.00	6,750.00
18	Nanasi	10,000.00	10,000,000.00	4,048.58	4,048,583.00	300.00	600.00	1,000.00	150.00
19	Papai (Pawpaw)	800.00	12,000,000.00	323.89	4,858,299.60	4,500.00	9,000.00	15,000.00	2,250.00
20	Mkweme	150.00	4,500,000.00	60.73	1,821,862.35	9,000.00	18,000.00	30,000.00	4,500.00
21	Komamanga	250.00	2,500,000.00	101.21	1,012,145.75	3,000.00	6,000.00	10,000.00	1,500.00
22	Stafeli	350.00	5,250,000.00	141.70	2,125,506.07	4,500.00	9,000.00	15,000.00	2,250.00
23	Mtende	125.00	1,125,000.00	50.61	759,109.31	4,500.00	9,000.00	15,000.00	2,250.00
24	Passion fruit	11,111.00	14,999,850.00	4,498.38	6,072,813.77	405.00	810.00	1,350.00	202.50
25	Pears	156.00	7,800,000.00	63.16	3,157,894.74	15,000.00	30,000.00	50,000.00	7,500.00
26	Apple	156.00	7,800,000.00	63.16	3,157,894.74	15,000.00	30,000.00	50,000.00	7,500.00
27	Peaches	156.00	5,460,000.00	63.16	2,210,526.32	10,500.00	21,000.00	35,000.00	5,250.00
28	Plums (Matunda damu)			-	-	12,000.00	24,000.00	40,000.00	6,000.00
29	Tikiti maji (Water melon)			-	-	4,500.00	9,000.00	15,000.00	2,250.00
30	Tango (Cucumba)			-	-	1,500.00	3,000.00	5,000.00	750.00
31	Mzambarau			-	-	15,000.00	30,000.00	50,000.00	7,500.00
32	Mkwaju			-	-	9,000.00	18,000.00	30,000.00	4,500.00
33	Mforosadi			-	-	3,600.00	7,200.00	12,000.00	1,800.00
34	Mbuyu			-	-	15,000.00	30,000.00	50,000.00	7,500.00

35	Topetope			-	-	4,500.00	9,000.00	15,000.00	2,250.00
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II									
TABLE NO. 2C - SEASONAL CROPS-SUMMARY OF VALUE RATES									
TYPE OF CROP		MARKET VALUE IN T.SHS.							
		Per Hectare		Per Acre		Per Stem or Cluster			
S/N.		Plant Popula- tion per Hectare	Average Cared Matured Crop	Plant Popula- tion per Acre	Average Cared Matured Crop	Seedling Crop (30%)	Mature crop (60%)	Optimum producing crop (100%)	Aged Crop (15%)
A									
CASH CROPS									
1	Tobacco	13,000.00	8,645,000.00	5,263.16	3,500,000.00	378	756	665	189.00
2	Cotton	40,000.00	9,880,000.00	16,194.33	4000000	255	510	247	127.50
B									
CELEASE									
1	Maize (Mahindi) Monocropping	10,000.00	1,976,000.00	4,048.58	800000	59.28	118.56	197.6	29.64
2	Maize (Intercropping)	10,000.00	1,482,000.00	4,048.58	600000	44.46	88.92	148.2	22.23
3	Paddy (Asili) (Mpunga)	10,000.00	5,928,000.00	4,048.58	2400000	177.84	355.68	592.8	88.92
4	Paddy (Improved) (Mpunga)	10,000.00	1,605,500.00	4,048.58	650000	48.165	96.33	160.55	24.08
5	Sorghum (Mtama)	10,000.00	1,482,000.00	4,048.58	600000	44.46	88.92	148.2	22.23
6	Ulezi	10,000.00	889,200.00	4,048.58	360000	26.676	53.352	88.92	13.34
7	Uwele	10,000.00	370,500.00	4,048.58	150000	11.115	22.23	37.05	5.56
8	Ngano	10,000.00	2,778,750.00	4,048.58	1125000	83.3625	166.725	277.875	41.68
9	Barley (Shairi)	10,000.00	1,803,100.00	4,048.58	730000	54.093	108.186	180.31	27.05
C									
BEANS									
1	Mbaazi	10,000.00	1,358,500.00	4,048.58	550000	40.755	81.51	135.85	82,500.00
2	Choroko	10,000.00	-	4,048.58		0	0	0	-
3	Maharage (Monocropping)	10,000.00	1,983,410.00	4,048.58	803,000	59.5023	119.0046	198.341	120,450.00

4	Maharage (Intercropping)	10,000.00	1,000,350.00	4,048.58	405,000	30.0105	60.021	100.035	60,750.00
5	Kunde	10,000.00	-	4,048.58		0	0	0	-
6	Njegere	10,000.00	-	4,048.58		0	0	0	-
7	Njugu mawe (Bambara nuts)	10,000.00	-	4,048.58		0	0	0	-
8	Ngwara/Fiwi nuts	10,000.00	1,976,000.00	4,048.58	800,000	59.28	118.56	197.6	120,000.00
9	Dengu	10,000.00	1,111,500.00	4,048.58	450,000	33.345	66.69	111.15	67,500.00
D	MIZIZI								
1	Magimbi (Cocoyams)	10,000.00	60,000,000.00	4,048.58	24,291,497.98	1800	3600	6000	900.00
2	Mihogo	10,000.00	50,000,000.00	4,048.58	20,242,914.98	1500	3000	5000	750.00
3	Viazi vikuu (Yams)	10,000.00	100,000,000.00	4,048.58	40,485,829.96	3000	6000	10000	1,500.00
4	Viazi vitamu (Sweet potatoes)	10,000.00	3,458,000.00	4,048.58	1,400,000.00	103.74	207.48	345.8	51.87
5	Viazi mviringo (Irish potatoes)	10,000.00	4,199,000.00	4,048.58	1,700,000.00	125.97	251.94	419.9	62.99
E	VEETABLES								
1	Bilinganya	10,000.00	790,400.00	4,048.58	320,000	23.712	47.424	79.04	11.86
2	Kabichi	10,000.00	8,398,000.00	4,048.58	3,400,000	251.94	503.88	839.8	125.97
3	Karoti	10,000.00	6,669,000.00	4,048.58	2,700,000	200.07	400.14	666.9	100.04
4	Maboga	10,000.00	-	4,048.58		0	0	0	-
5	Matango	10,000.00	666,900.00	4,048.58	270,000	20.007	40.014	66.69	10.00
6	Mchicha	10,000.00	-	4,048.58				0	-
7	Nyanya	10,000.00	5,557,500.00	4,048.58	2,250,000	166.725	333.45	555.75	83.36
8	Pilipili hoho	10,000.00	889,200.00	4,048.58	360,000	26.676	53.352	88.92	13.34
9	Vitunguu maji	10,000.00	3,211,000.00	4,048.58	1,300,000	96.33	192.66	321.1	48.17
10	Vitunguu saum	10,000.00	10,374,000.00	4,048.58	4,200,000	311.22	622.44	1037.4	155.61
11	Calflower	10,000.00	8,398,000.00	4,048.58	3,400,000	251.94	503.88	839.8	125.97
12	Nyanya chungu	10,000.00	1,123,850.00	4,048.58	455,000	33.7155	67.431	112.385	16.86

13	Spinachi	10,000.00	2,167,425.00	4,048.58	877,500	65.02275	130.0455	216.7425	32.51
F	MAUA								
1	Maua ya nje (Out door)					2,400,000.00	4,800,000.00	8,000,000.00	1,200,000.00
III	TABLE NO.3C SUMMARY - FOREST PERENNIAL CROPS								
	TYPE OF CROP	Per Stem							
S/N.	TYPE OF CROP	Seedling Crop (60%)	Mature crop (100%)	Mature trees (30%)					
1	Shade trees	6,000.00	12,000.00	3,000.00					
2	Miti ya mbao Ngumu i.e Mninga	90,000.00	180,000.00	45,000.00					
3	Mvule	90,000.00	180,000.00	45,000.00					
4	Mkongo	90,000.00	180,000.00	45,000.00					
5	Mpingo	90,000.00	180,000.00	45,000.00					
6	Mloliondo	90,000.00	180,000.00	45,000.00					
7	Mringaringa	90,000.00	180,000.00	45,000.00					
8	Mruka	90,000.00	180,000.00	45,000.00					
9	bamboo	6,000.00	12,000.00	3,000.00					
10	Mkungu	9,000.00	18,000.00	4,500.00					
11	Mkaratusi	15,000.00	30,000.00	7,500.00					
12	Mwarobaini	10,500.00	21,000.00	5,250.00					
13	Mng'ong'o	7,500.00	15,000.00	3,750.00					
14	Mpira (Rubber)	13,500.00	27,000.00	6,750.00					
15	Mkrismass	6,000.00	12,000.00	3,000.00					
16	Mpilipili	1,500.00	3,000.00	750.00					
17	Lucina	6,000.00	12,000.00	3,000.00					
18	Ashock trees	6,000.00	12,000.00	3,000.00					

19	Misonobari	15,000.00	30,000.00	7,500.00					
20	Grvellia	45,000.00	90,000.00	22,500.00					
21	Mgundi	13,500.00	27,000.00	6,750.00					
22	Mtiki	21,000.00	42,000.00	10,500.00					
23	Mchongoma	180.00	360.00	90.00					
24	Mjohoro	6,000.00	12,000.00	3,000.00					
25	Mnyaa	90.00	180.00	45.00					
26	Mlonge	13,500.00	27,000.00	6,750.00					
27	Jakaranda	18,000.00	36,000.00	9,000.00					
28	Mfurufuru	13,500.00	27,000.00	6,750.00					
29	Mgude	9,000.00	18,000.00	4,500.00					
30	Myombo	18,000.00	36,000.00	9,000.00					
31	Mkuyu	10,500.00	21,000.00	5,250.00					
32	Msesewe	12,000.00	24,000.00	6,000.00					
33	Cederella/Mvujagenge	18,000.00	36,000.00	9,000.00					
34	Mlebanon	45,000.00	90,000.00	22,500.00					
35	Mbambakofi	12,000.00	24,000.00	6,000.00					

THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF LANDS, HOUSING AND HUMAN SETTLEMENTS
DEVELOPMENT

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University of Dodoma Road,
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40477-DODOMA.

In reply please quote:
Ref. No. BA.391/466/01/58

15th August, 2018

Managing Director,
WhiteKnights,
Real Estate Investment Analyst Co. Ltd,
P.O. Box 35480,
DAR ES SALAAM.

**REF: DERTAMINATION OF VALUES OF ECONOMIC TREES AND CROPS NOT
APPEARING IN THE GOVERNMENT COMPENSATION SCHEDULE, 2012**

Reference is made to your letter Ref No. WHTS/CV/2707/001 dated 27th July, 2018 regarding the above captioned matter.

Crop rates of 2012 are virtually outdated, this year Chief Government Valuer's Office have carried research on crops rate values in 2018 which still in final process of approval whereby soon will be released to be used.

Kindly, therefore find attached crop rate schedules for Northern and Lake Zones which is correspondence to your request to Government Chief Valuer to endorse unlisted crops as per your suggestion. **Table "I"** is a list of trees which are found in crop schedule of 2012, therefore we advise you to use the list as it was researched by Government District Valuers in 2018.

Table "II" is a crop list which are found to be of economic value as per your field research and is not found in 2012 crop schedule. In this list we have made some changes in crop value submitted and advised to use the current list as it appears in **Table "II"**.

Thanks for your corporation

A handwritten signature in blue ink, appearing to read 'Evelyne B. Mugasha'.

Evelyne B. Mugasha
For: PERMANENT SECRETARY

S/N.	English	Swahili	Matured Crop "A" (100%)	proposed by Whiteknight (Lake)	proposed by Whiteknight (Northern)
TABLE "I"					
CROP RATES 2018					
1	Plum	Mzambarau	40,000.00	25,000.00	25,000.00
2	Alovera	Shubiri	5,000.00	5,000.00	5,000.00
3	Jatropher	Mibono	50.00	25,000.00	25,000.00
4	Albisia	Mkenge	120,000.00	20,000.00	20,000.00
5	Cordia Africana	Mringaringa	120,000.00	45,000.00	45,000.00
6	Croton Macroytachyus (Black Plam)	Mfurufuru/Mfuru	27,000.00	90,000.00	90,000.00
7	Fever Tree	Mchongoma (Uzio)	3,000.00	360.00	360.00
8	Lucina Trees	Lucina	26,000.00	12,000.00	12,000.00
9	Magnolia Caffira	Mbambakofi	24,000.00	40,000.00	40,000.00
10	Pines	Misonobari	70,000.00	45,000.00	45,000.00
11	Quinine tree	Msesewe	24,000.00	40,000.00	40,000.00
12	Shade trees	Shade trees(panga uzazi)	20,000.00	20,000.00	20,000.00
13	Sycamue	Mkuyu	45,000.00	45,000.00	80,000.00
14		Mkoma	15,000.00	20,000.00	20,000.00
15		Mbula	45,000.00	20,000.00	20,000.00
16		Sungwi	15,000.00	20,000.00	20,000.00
17		Mtantalala	13,000.00	20,000.00	20,000.00
18		Majani Mapana	20,000.00	20,000.00	20,000.00
19		Muhare	20,000.00	20,000.00	20,000.00
20	Acacia Albida	Mgunga	20,000.00	20,000.00	20,000.00
21		Mijune	20,000.00	20,000.00	20,000.00
22		Muzo	5,000.00	20,000.00	20,000.00
23		Mshasha	20,000.00	20,000.00	20,000.00
24		Mjijune	10,000.00	20,000.00	20,000.00
25		Mrumba	30,000.00	20,000.00	20,000.00
26	Sisal	Katani	5,000.00	6,000.00	6,000.00
27	Baobab	Mbuyu	50,000.00	60,000.00	50,000.00
28	Tamarind	Mkwaju	50,000.00	60,000.00	30,000.00
29	Wild custard Apple	Topetope	15,000.00	19,000.00	15,000.00
30	Bamboo	Mianzi	25,000.00	30,000.00	30,000.00
31	Cederella	Mvujagenge	60,000.00	30,000.00	30,000.00
32	Fuel wood	Mruka	120,000.00	45,000.00	45,000.00
33	Jakaranda	Jakaranda	30,000.00	30,000.00	30,000.00
34	Magnolia	Mlebanon	50,000.00	45,000.00	45,000.00
35	Mahogany Tree	Mkongo	120,000.00	60,000.00	60,000.00
36	Milicia excelsa	Mvule	80,000.00	50,000.00	50,000.00
37	Moringa Oleifera	Mlonge	30,000.00	32,000.00	27,000.00
38	Olea carpensis	Mloliondo	120,000.00	45,000.00	45,000.00
39	Sterculia Appendiculate	Mgude	30,000.00	30,000.00	30,000.00
TABLE "II"					
crop rates hazipo kwenye schedule ya 2018					
1	mbanga			45,000.00	45,000.00
2	mharala			15,000.00	15,000.00
3	muhumula			30,000.00	30,000.00
4	miboyo			45,000.00	20,000.00
5	mihale			20,000.00	20,000.00
6	misambia			50,000.00	50,000.00
7	misule			20,000.00	20,000.00
8	mitundu			45,000.00	45,000.00
9	mizima			20,000.00	20,000.00
10	mkola			30,000.00	30,000.00
11	mkurunge			30,000.00	30,000.00
12	mnagale			60,000.00	60,000.00
13	mpogoro			30,000.00	30,000.00
14	mpondo			50,000.00	50,000.00
15	msana			45,000.00	45,000.00
16	mtalali			19,000.00	19,000.00
17	mugu			20,000.00	20,000.00

Appendix C

Record of Consultation & Disclosure

Appendix C–Consultation and Disclosure

Table C-1: Key National-level Government of Tanzania Stakeholders (RAP Planning)

Name of Government Body	Summary of Overall Responsibilities	Summary of Involvement in Land Acquisition and Resettlement ¹
Key Agencies:		
Ministry of Lands, Housing and Human Settlements Development (MLHHSD).	<p>Principal ministry is responsible for land use planning, surveying and demarcating land and the provision of land ownership and tenancy rights.</p> <p>Responsible for policy, regulation and coordination of matters relating to land in Tanzania. It also administers the various Land Acts, including the Land Acquisition Act, the Land Act and the Village Land Act. Land use planning, management and land delivery activities are usually conducted by the ministry.</p> <p>Within this ministry, the Commissioner for Lands administers most issues dealing with land allocation, acquisition, and registration and land management. All instances of acquisition of land for public purposes and the need for resettlement and / or compensation must be referred to the commissioner.</p>	<p>Oversight and approval role for:</p> <ul style="list-style-type: none"> Review and verification of the valuation rates, process and Valuation Reports (VRs), including the Compensation Schedules, through the Office of the CV; Regulation and oversight of the land acquisition process, including ensuring compensation is paid or resettlement undertaken as agreed in the approved Valuation Reports; and Ensuring that the amount of compensation paid to Project Affected Persons (PAPs) is equivalent to the value of affected properties and signing off VRs prepared by registered valuers to verify that the entitlements comply with Tanzanian laws governing land acquisition, resettlement and compensation.
Ministry of Energy (ME).	<p>Oversight role in instigating, coordinating and managing government responses to the Project and, in cooperation with the Tanzania Petroleum Development Corporation (TPDC)² within the Ministry, provide guidance on corridor routing, supporting associated development.</p> <p>Both Tanzania Electric Supply Company (TANESCO) and the Rural Energy Agency (REA) fall under the ME.</p>	<p>Oil and Gas resides under this ministry and it is therefore the institutional “home” of the Project. The ME is the lead ministry managing the development and delivery of the Project.</p> <p>Project specific roles as set out under the Project land acquisition process.</p> <p>Advise through relevant agencies (e.g. TANESCO) on reserves associated with powerlines which run through and / or are adjacent to the corridor.</p>
Other Relevant National Level Government Agencies		
The Vice-President’s Office.	Coordinates government service delivery, accountability and environmental management issues including climate change.	Key stakeholders for all Project activities, including the Environmental and Social Impact Assessment (ESIA).

¹ Project specific roles are set out under the Project Land Acquisition Process.

² TPDC is the National Oil Company of Tanzania through which the ME implements its petroleum exploration and development policies.

Name of Government Body	Summary of Overall Responsibilities	Summary of Involvement in Land Acquisition and Resettlement ¹
National Environment Management Council (NEMC).	Oversees environmental management issues, with the mandate to undertake enforcement, compliance, review and monitoring of environmental impacts assessments, research, facilitation of public participation in environmental decision-making, raising environmental awareness, and collecting and disseminating environmental information.	NEMC will be provided with the Resettlement Policy Framework (RPF) and Resettlement Action Plans (RAPs) (when available) as part of ESIA process.
Ministry of Regional Administration and Local Government.	Coordinates and supervises regional development, management and administration. The ministry coordinates rural and urban development management policy and strategies; and coordinates Regional Secretariats' activities, building their capacity in institutional development strategies, for integrated socio-economic development and financial development of local government authorities.	<p>The Regional Commissioner (RC), Regional Administrative Secretary (RAS), District Commissioner (DC), District Administrative Secretary (DAS), District Land Officers, District Executive Director (DED), Town Executive Director (TED) fall under this ministry, as well as Ward Executive Officers (WEO), and Village Executive Officers (VEO), Mtaa Executive Officers.</p> <p>These are key stakeholders in arranging and facilitating ward and village meetings. They participate in sensitization meetings at the ward and village level, which are undertaken in consultation with the District Council. They participate in the valuation and resettlement process including through District Valuers and Land Officers. They also play a role in the Compensation Schedule disclosure and verification process. The DC is the final signatory of the Compensation Schedule before it is submitted to the CV for approval.</p> <p>This ministry is responsible for managing the district-level grievance procedure.</p>
Ministry of Agriculture, Food Security and Co-operatives.	Regulates the livestock and fisheries sector to ensure continued livelihoods, employment, national income and food security. Provides District Agricultural Officers at village level to oversee agricultural activities and assist with agricultural development.	Partakes in developing the crop and tree rates for Tanzania. May have an interest (as a key stakeholder) in RAP-related livelihood restoration projects that pertain to agriculture.
Ministry of Livestock and Fisheries Development.	Regulates the livestock and fisheries sector to ensure continued livelihoods, employment, national income and food security.	May have an interest in RAP-related livelihood restoration projects that pertain to livestock and / or fishing / aquaculture.
Ministry of Education, Science, Technology and Vocational Training.	Responsible for the national education system to empower locals with knowledge and skills that add value to national development.	May have an interest in RAP-related livelihood restoration projects that pertain enhance local knowledge and skills.
Ministry of Health, Community Development, Gender, Elders and Children.	Responsible for health and concerned with the improved social well-being of communities and community development programs.	May assist or have an interest in the identification, monitoring and implementation of community development programs connected to the livelihood restoration measures.
Ministry of Home Affairs.	Responsible for the registration of all Tanzanian nationals.	If needed, assists with support where PAPs require identity documents to assist them to verify land ownership and compensation payments.

Name of Government Body	Summary of Overall Responsibilities	Summary of Involvement in Land Acquisition and Resettlement ¹
Ministry of Water and Irrigation.	Responsible for the sustainable management and development of water resources.	Water Basin Authority must approve any water drilling/borehole and uptake while water utilities must approve uptake from existing water infrastructure. Monitors the impact of the Project on water resources and communities' access to water. Authority responsible for watercourses that are determined to be Reserved Land.
Ministry of Works, Transportation and Communication.	Oversees the development and maintenance of roads, bridges and government property. Coordinates the development of infrastructure, including marine, aviation, roads, and other construction projects. The Tanzania Ports Authority (TPA), Tanzania Railways Corporation (TRC) and the Tanzanian National Roads Agency (TANROADS) fall under this ministry. The TANROADS and Tanzanian Rural Roads Agency (TARURA) deal with all road infrastructure, construction and maintenance. The TRC is responsible for railway construction and maintenance. TTCL is responsible for telecommunication and cable networking.	TANROADS (and TARURA) must approve any disruption to the road network or infrastructure, including the planning and building of any new roads. Provides permission to crossroads / railway lines. Provides permission for activities at the port. Advise through relevant agencies (e.g. TANROADS and TRC, etc.) on reserves associated with existing roads, railways lines, telecommunication lines or cable lines (buried cables) adjacent to / crossing the corridor.
Ministry of Natural Resources and Tourism.	The Tanzania Forest Service Agency (TFS) falls under this ministry. The TFS is a semi-autonomous government Executive Agency mandated to sustainably undertake conservation, development and utilization of national forest and bee resources so that they contribute to both the current and future social, economic, ecological and cultural needs. TFS manages and protects all forest reserves, including all catchment forests and mangroves. Tanzania Wildlife Management Authority (TAWA) also falls under this ministry. TAWA is an autonomous public institution responsible for undertaking the administration and sustainable management of wildlife resource and biodiversity conservation (outside National Parks and Ngorongoro Conservation Area), comprising Game Reserves, Game Controlled Areas and open areas.	Advises on matters related to protected areas, including on unpermitted land uses within reserve areas. TFS will have a role in land acquisition matters in forest reserves. Similar to TFS, TAWA will have a role in land acquisition in Reserved Land under its administration.
Ministry of Minerals.	Responsible for facilitating the development of the mining sectors to encourage sustainable economic development.	Concerned with the impact of the Project on Mineral Rights and royalties, local levies and other taxes of mines.

Table C-2: Key Regional and District Government of Tanzania Stakeholders

Name of Government Body	Summary of Overall Responsibilities	Summary of Involvement in Land Acquisition and Resettlement
Regional Secretariats.	Provide coordination and guidance to land acquisition processes ensuring it is undertaken in accordance with Tanzanian law.	<p>The relevant role of the RC's Office includes:</p> <ul style="list-style-type: none"> • In collaboration with District Councils and Village Assemblies, playing an oversight role in valuation surveys; • Coordinating with District Councils to ensure their attendance at sensitization meetings and valuation surveys to enable community sensitization, PAPs identification and valuation surveys to occur efficiently and effectively; • Assisting with the resolution of grievances wherever practicable; and • Providing direct assistance to adjoining regions impacted by the Project if no regional land officers and or / valuers are available.
District Authorities.		<p>The District Councils, DC's Office, DED's and TED Office have a direct role in the land acquisition process regarding:</p> <ul style="list-style-type: none"> • Notifying the affected Ward Development Councils (WDCs), Village Development Councils (VDCs), Mtaa Development Councils of the proposed Project; • Advising the VDC on the management of Village Land; • Participating in the land and asset valuation process in an oversight role and verification of the Compensation Schedule produced by the valuers; • Supporting on issues regarding land acquisition and transfer and preparation of title documents for relocation sites (if required); and • Where District Land and Housing Tribunals exist, attending to all grievances of a civil nature regarding land whose pecuniary value is less than T.Shs. 50 million. <p>Wards, which are part of District Councils, play a key role as follows:</p> <ul style="list-style-type: none"> • Ward Officers facilitate the arrangement of and participate in community sensitization and other meetings, including as regards livelihood restoration planning. In relation to the land and asset valuation process, they have an oversight role and verify the Compensation Schedule produced by the valuers; • Advisory services to VDCs; and • Attending to all grievances of a civil nature regarding land whose pecuniary value is less than T.Shs. 3 million are responsible for coordinating development activities and planning in the ward and linking these with the district level plans.

Table C-3: Key Village Level Stakeholders

Name of Village Body	Summary of Overall Responsibilities	Summary of Involvement in Land Acquisition and Resettlement
Village and Mtaa Assemblies / Development Councils.	<p>Key authority in village matters.</p> <p>The Village Assembly is composed of all adult members residing in the village. A village may be made up of hamlets.</p>	<p>VDC: Relevant Village / Mtaa Assemblies / Councils, who are the supreme authority in village matters, can encourage villagers to participate in the process to ensure sustained collaboration between the Project and PAPs / PAHs. Their role is to:</p> <ul style="list-style-type: none"> • Participate in Project sensitization and disclosure meetings; • Mobilize affected households and provide feedback / notification to PAPs on Project-related issues; • Participate in identification of affected households and witness the property valuation exercise; • Participate and witness the land survey and mapping of the Project area; • Support PAPs during the preparation and submission of their compensation claims; • Witness the compensation payment process; and • Support in the land acquisition process and during the registration of any relocation sites (if required). <p>Village / Mtaa Assembly:</p> <ul style="list-style-type: none"> • Participate in Project sensitization and disclosure meetings; • Approve relevant aspects of the land acquisition program (e.g. with regard to the transfer of village land); and • Resolve property ownership disputes within households prior to land acquisition or escalate them to the VDC for guidance. <p>VEOs participate in community sensitization, and the land and asset valuation process in an oversight role and during verification of the Compensation Schedule produced by the valuers.</p>

Table C-4: International and National Non-Government Organizations (with a focus on Land and Livelihood Matters)

No.	Name	International Organizations (including Non-Government Organizations NGOs)	Umbrella National NGOs	National NGOs at local level
1	World Wildlife Fund (WWF).	X		
2	Oxfam.	X		
3	Norwegian Church Aid (NCA).	X		
4	SNV.	X		
5	Fundación Capital (Funda K).	X		
6	Africare.	X		
7	TechnoServe (TNS).	X		
8	Plan International.	X		
9	Heifer International.	X		
10	World Vision.	X		
11	Mazingira Network (MANET).		X	
12	HakiRasilimali.		X	
13	Tanzania Gender Network Programme (TNGP).		X	
14	Pastoralists Indigenous Non-Governmental Organizations (PINGOs Forum).		X	
15	Tanzania Media Women Association.		X	
16	Tanzania Human Rights Defenders Coalition (THRDC).		X	
17	Tanzania Land Alliance (TALA).		X	
18	Interfaith Standing Committee on Economic Justice and the Integrity of Creation (ISCJIC).		X	
19	WAJIBU Institute of Public Accountability.		X	
20	Haki Ardhi.			X
21	Economic and Social Research Foundation.			X
22	Legal and Human Rights Centre (LHRC).			X
23	Legal Environmental Action Team (LEAT).			X
24	SeaSense.			X
25	Mwambao Coastal Community Network.			X

Table C-5: Civil Society Organizations Active in the Districts (with a focus on land and / or livelihood matters)

No.	Village / ward	Group name	Activities
Missenyi District			
1	Kyaka, Mushasha, Kilimilile, Mabale and Kassambya Wards	World Vision	Supporting orphans, implementation of agricultural projects, water education and health
2	Missenyi	Health, Gender and Environmental Association (HEGEA)	Providing environmental protection, education against the fight against HIV / AIDS, and malaria, land use, good governance and human rights, gender equality
Bukoba District			
3	Bukoba	Bukoba Women Empowerment Association	Empowering women economically
4	Bukoba	Kolping Society of Tanzania	Providing agriculture and business development
5	Bukoba	Sarepta Women Group	Building women and youth economically and caring for the environment
6	Bukoba	Centre for Development Initiatives	Increasing food security, reducing poverty, increasing income, providing education for farmers
7	Bukoba	Kagera Women Empowerment Facility (kawef) in Bukoba	Privacy rights, HIV / AIDS and orphans, environmental conservation, increasing the ability of women and youth to make decisions
8	Bukoba	Rhema Jamii	Providing education in various sectors especially agriculture
9	Bukoba	Tumaini Women Development Association	Defending the rights of women and children by resolving conflict situations and providing legal aid, educating the community on human rights, environmental management and economic recovery, fighting against corruption within the community
10	Bukoba	Maendeleo ya Wakulima	Agricultural training, environmental and natural resources
11	Bukoba	Kagera Centre for Poverty Alleviation	Community education, building community capacity on budget planning
12	Bukoba	Wakina Mama Wanaoishi na Virusi Vya Ukimwi	Livestock issues awareness and education in HIV issues
13	Bukoba	Kagera Women and AIDS Organization	Development for women
14	Bukoba	Light House Foundation	Providing basic education for youth and women, developing manufacturing and innovative products, looking for product markets, developing young talent for economic development, providing young entrepreneurs employment within the organization
15	Bukoba	Matumaini Mapya	Supporting the cost of tuition, providing legal support, training of leaders and providing subsidies to widows
16	Bukoba	Tanzania Agriculture Modernization	Gender equity, good governance, environmental issues, HIV / AIDS and organic farming
17	Bukoba	Rukoma Area Programme	Providing agriculture hybrid health and financing Income Increase Projects
18	Bukoba	Katero Area Development Programme	Providing agriculture hybrid health and financing Income Increase Projects

No.	Village / ward	Group name	Activities
19	Bukoba	Ibwera Area Development Programme	Providing agriculture hybrid health and financing Income Increase Projects
20	Bukoba	African Partnership on Climate Change Coalition	Providing education on the impact of climate change, planting environmentally friendly trees, women entrepreneurship and beekeeping
21	Bukoba	Tanzania Agriculture Association (TAMA)	Developing farmers' ability as pastoralists, maintaining environmental sustainability, land use, good governance and human rights, gender equality and preventing new HIV / AIDS infections to the society
Muleba District			
22	Kamachumu Division	Kamachumu Vision for Poverty Eradication (KAVIPE)	Providing agricultural education in the community
23	Kamachumu Division	Muungano wa Vikundi ya Maendeleo ya Wanawake Kamachumu (MUVIMAWAKA). The Union of Women's Development Groups Kamachumu	HIV / AIDS and gender education, supporting people living with HIV in conducting economic activities / search of markets and environmental conservation
24	Kiziramuyaga, Buhangaza and Nshamba Wards	Kagera Development Training Association (KADETA)	Training on rural development activities such as environmental conservation, agriculture and community health
25	Muleba and Nshamba Divisions	West Victoria Development and Health Association (WEVIDHA)	Computer training, HIV education and environmental conservation
26	Muleba DC	WAMATA	HIV / AIDS education, supporting orphans and widows, providing social health education
27	Muleba DC	Mhola (MAMS Hope Organisation for Legal Assistance)	Legal assistance in the community
28	Muleba DC	Radical Society Organisation (RSO)	HIV / AIDS education and gender, supporting people living with HIV in doing agricultural projects and entrepreneurship activities
29	Muleba DC	Tanzania Red Cross	Training on rural development activities such as environmental conservation, agriculture and social health
30	Muleba DC	MUCODA	Environmental conservation
31	Kamachumu division	RISE	Dealing with agriculture and livestock
32	Kyebitembe ward	ACTINGONO	Assistance with water services and hygiene
Biharamulo District			
33	Biharamulo Town	Biharamulo Rural Appropriate Technology and Innovation Society (BRATIS)	Disseminating technology to the community
34	Biharamulo Town	Facilitation for Integrate Development and Relief Services (FAIDERS)	Depositing and borrowing, environmental conservation
35	Biharamulo Town	Biharamulo Originating Social Economic Development (BOSEDA)	Providing AIDS education, civic education and environmental conservation to the community

No.	Village / ward	Group name	Activities
36	Biharamulo Town	Community Habitat Environmental Management (CHEMA – FBO)	Supporting the community in environmental conservation through income generating activities like beekeeping; and Supplying crops produced with non-industrial fertilizer and increasing the income of citizens
37	Biharamulo Town	TUMAINI Fund (FBO)	Providing services / paying school fees for orphaned children, improving water services by drilling water wells / boreholes, environmental conservation and agriculture
38	Biharamulo Town	Spearing for Improved Water and Sanitation (SIWASAT)	Assisting with availability / conservation of clean and safe water

Table C-6: Summary of Land Acquisition and Resettlement Working Group Discussions

LARWG Meeting Number	LARWG Meeting Date	Ministries in Attendance	Relevant Issues Discussed
1	29 th March 2018	MoE MLHHS TPDC TPA.	<ul style="list-style-type: none"> • LARWG organization; • Updated land acquisition process; • PAs survey progress; • Compensation rates for PAs; • PAs RAP planning; • Reserved Land including roads; and • Mining interfaces.
2	10 th April 2018	MoE TPDC MLHHS (Office of CV).	<ul style="list-style-type: none"> • Land acquisition changes and encumbrances; • Fieldwork including verification, in-kind compensation and livelihood restoration investigations; • Confirmation of land rates (by CV); • Gazettement schedule / timetable; • Provision of Marine Storage Terminal (MST) land acquisition data; • Access to mining cadastral data; and • Road issues.
3	24 th April 2018	MoE MLHHS TANESCO TANROADS TARURA TPDC TRC.	<ul style="list-style-type: none"> • Road and rail reserve encumbrances; • Power line and water utilities infrastructure; • Land rates; • Provision of MST land acquisition data; • Access to mining cadastral data; • Engagement at regional level; • Fieldwork including verification, in-kind compensation and grievances; • Data format required for gazette submission; • Gazettement process; • VRs; and • RAP implementation.
4	8 th May 2018	MoE MLHHS TANESCO TARURA TPA TPDC.	<ul style="list-style-type: none"> • Powerline utility; • Land and crop rates; • Provision of MST land acquisition data; • Access to mining cadastral data; • Road issues;

LARWG Meeting Number	LARWG Meeting Date	Ministries in Attendance	Relevant Issues Discussed
			<ul style="list-style-type: none"> • RPF; • VR templates; • Compensation schedules; • Gazettement information; • Payment of compensation; • Grievances; and • RAP implementation.
5	22 nd May 2018	MWTC TANROADS TPA TRC MLHHSD.	<ul style="list-style-type: none"> • Confirm width of road reserves, classification approach and compensation approach to roads that require upgrades; • Gazettement procedure and transfer; • Provision of MST land acquisition data; • Access to mining cadastral data; • RAP field work update; • Progress in VRs, gazettelement and compensation payments; • Above the line and below the line terminology; • Unlisted trees of economic value; • RAP implementation Expression of Interest; and • Replacement housing.
6	12 th June 2018	MoE MLHHSD TANESCO MWTC.	<ul style="list-style-type: none"> • Provision of land MST acquisition data; • Access to mining cadastral data; • Submission of RPF and disclosure; • RAP survey; • Housing strategy; • Valuation methodology and reports; • Government verification process; • Gazettement plan; and • RAP implementation Expression of Interest.
7	10 th July 2018	TARURA TPDC MLHHSD.	<ul style="list-style-type: none"> • Provision of MST land acquisition data; • Access to mining cadastral data; • Gazettement letter; • Compensation letter; • Unlisted trees; • RAP survey;

LARWG Meeting Number	LARWG Meeting Date	Ministries in Attendance	Relevant Issues Discussed
			<ul style="list-style-type: none"> • Housing strategy; • VRs; • Government verification process; and • RAP implementation Invitation to Tender.
8	7 th August 2018	MLHHSD MWTC TARURA TPDC.	<ul style="list-style-type: none"> • Provision of MST land acquisition data; • Access to mining cadastral data; • Gazettement progress; • Unlisted trees; • RAP survey; • Housing strategy; • VRs; and • Government verification process.
9	4 th September 2018	MoE MLHHSD TPDC.	<ul style="list-style-type: none"> • RPF comments received from MLHHSD; • Land acquisition process including declaration and gazettelement for public purpose; • Survey requirements and timing for land transfer and issuing of consolidated Right of Occupancy (ROO); • Provision of MST land acquisition data; • Access to mining cadastral data; • Regional engagement; and • RAP progress.
10	18 th September 2018	MoE MLHHSD TPDC	<ul style="list-style-type: none"> • Provision of MST land acquisition data; • Access to mining cadastral data; • RAP progress on the VRs, cadastral surveys, disclosure and verification progress and RAP development; and • Regional engagement.
11	10 th December 2018	MoE MLHHSD TPDC FB Attorneys.	<p>The following topics discussed have bearing on the Kagera RAP development and process:</p> <ul style="list-style-type: none"> • Arrangements for the transfer of land; • Compensation Agreement and Payment of Compensation; and • Requirement of Issuing of ROO.
12	18 th January 2019	MoE TPDC MLHHSD TPA	<p>The following topics discussed have bearing on the Kagera RAP development and process:</p> <ul style="list-style-type: none"> • Interest rate – disturbance allowance; • Gazettement and Notice of Intention to Acquire; • Conversion of Village Land and Reserved Land to General Land; • Clarity on the Notice to Yield Possession; and

LARWG Meeting Number	LARWG Meeting Date	Ministries in Attendance	Relevant Issues Discussed
		FB Attorneys.	<ul style="list-style-type: none"> Reserved Land data.
13	1 st April 2019	MoE TPDC MLHSD FB Attorneys.	<p>The following topics discussed have bearing on the Kagera RAP development and process:</p> <ul style="list-style-type: none"> Confirmation of Public Purpose; Gazettement and Notice of Intention to Acquire; Notice to Yield Possession; Reserved Land matters; Land / boundary matters; Mining Commission meeting; Regional and district engagements; and Pipeline and resettlement planning process.
14	17 th July 2019	ME TPDC MLHSD	<ul style="list-style-type: none"> PA Planning Progress; Land access and project schedule; Pipeline and Above Ground Installations (AGIs) progress; Regional and district engagement; Reserved Land issues; Outstanding boundary disputes; and Meeting with Mining Commission.

Table C-7: Summary of Meetings with National & Regional GoT Stakeholders

Meeting Date	Government Ministry / Department / Region	Purpose / Objectives	Issues / Topics Discussed
As part of the PA RAP			
17 th August 2017	Key ministerial stakeholders.	Technical kick-off meeting to provide background on the RPF, the scoping report and the PA surveys.	<ul style="list-style-type: none"> Replacement land where affected people can be moved to should be identified; The VRs should be submitted to the CV; Vulnerable groups should be identified and receive special consideration; A workshop between the Project, RAP planning consultant and the CV should be held prior to the commencement of field surveys; The pipeline corridor should be confirmed; and Communication with the government should follow the proper protocols.
6 th September 2017	Attendees included Acting RAS; DCs; Acting DED; and RAS members.	<ul style="list-style-type: none"> Introduction to the Project and the scope of work of the RAP planning consultant; International Financial Institutions requirements pertaining to resettlement and compensation; Upcoming surveys of PAs; Typical roles of regional and district authorities during valuation and resettlement. Working relationship and interaction between national, regional and district authorities; Constraints relevant to planning and implementation of valuation and resettlement; Knowledge of other resettlement projects where international standards were applied; and Views on differences between international and Tanzanian resettlement standards. 	<ul style="list-style-type: none"> Importance of sensitization; Possibility of dishonest district valuers; Concern about a delay between valuation and compensation payment; Compensation of land belonging to a family may result in conflict; Livelihood restoration process; Compensation rates; and Lack of capacity to assist with the RAP development and the need for capacity building.
As part of the Pipeline RAP			
24 th July 2018	Attendees included the RC and the RAS.	<p>Provide information on the RAP progress and timeframes on the:</p> <ul style="list-style-type: none"> Surveys; Compensation approach; Valuation; Land acquisition / compensation process; and Planned future engagements in the region on the resettlement process. 	<p>The majority of issues and comments revolved around compensation and valuation, followed by issues related to engagement and grievances, benefits to Tanzanians in general and local communities specifically and discussions around land ownership after construction.</p> <p>Recurring themes across the regions:</p> <ul style="list-style-type: none"> Ensure that local people are aware of / benefit from employment opportunities, and the process that is required to be followed to apply for positions. Procurement and supply contracts need to be simplified for local companies. Local companies and service providers must be informed

Meeting Date	Government Ministry / Department / Region	Purpose / Objectives	Issues / Topics Discussed
		<p>The objectives were that regions would be able to:</p> <ul style="list-style-type: none"> • Convey the progress of the Project, the key milestones already achieved and yet to be achieved to other stakeholders; • Verbally and actively provide continued support for the Project; • Determine and plan for the resources required to meet requirements of the Project from the region; and • Communicate key messages to stakeholders. 	<p>about EACOP requirements in order for them to prepare, e.g. catering.</p> <ul style="list-style-type: none"> • <u>Infrastructure, land allocation and town plans</u>: including whether local people would be allowed to use Project roads; payments for disturbance to community resources and infrastructure. • <u>Engagement and communication</u>: including discussion about the extent of the sensitization meetings and the content of the discussions at these meetings; Regular feedback required to the District; Possibility to align regional and district meetings to better understand the challenges experienced at district level. Project feedback at regional level to be improved. • <u>Grievance Management</u>: Confirmed that EACOP appoints all contractors and has a grievance system in place for reporting issues and concerns about poorly performing contractors; Proposed to include the regional level government officials in the valuation process since grievances would, overall, be directed at regional level; The process by which the district is engaged in grievance resolution was discussed and EACOP feedback on grievances received and resolved to date was requested. • <u>Safety and security</u>: The parties responsible for the security and safety of the pipeline and ensuring that the latest technology is used in monitoring the pipeline for theft, vandalism and other threats were discussed. It was observed that the opportunity for theft by the workforce should be minimized. • <u>Compensation amounts and process</u>: <ul style="list-style-type: none"> ○ The ways in which valuations based on the 2012 crop and tree rates would be handled when the new rates were available were queried; ○ Differences between national and international compensation standards and reasons for adhering to both were clarified; ○ Concerns that international standards seemed to slow down the process were addressed; ○ Clarification about the process followed to compensate for affected roads and rail was sought; ○ Compensation methods for cultural sites, graves, historical sites and churches / mosques were discussed; ○ Valuations to account for the difference in age of crops and trees should be reflected in the PAP compensation amounts; ○ The basis for compensation amounts for structures; ○ The comment was made that compensation should be paid before the start of the local elections in 2019;

Meeting Date	Government Ministry / Department / Region	Purpose / Objectives	Issues / Topics Discussed
			<ul style="list-style-type: none"> ○ Compensation for small parcels of land as part of a bigger parcel of land not affected by the Project would require that the title deed is changed in accordance with the Land Acquisition Act of 1967. It was confirmed that costs for the change would be included in the compensation amount; ○ PAP refusals would be treated with sensitivity and sufficient engagement to ensure that PAPs understood the process and compensation procedure; ○ Compensation should be paid prior to the commencement of construction in adherence with national laws to avoid conflict with PAPs; ○ Comment was made that compensation should not be given in the form of cash but rather in-kind or using a cheque account; ○ Observation was made that the difference in land rates between areas could cause conflict. Observation was made that the compensation payments and rates should be harmonized to avoid unnecessary conflict; ○ The approval process of the VRs was confirmed; and ● The RAP planning consultant confirmed that government representatives were welcome to visit surveyed areas. The RAP planning consultant requested that the Project community liaison officers (CLOs) were informed about intended visits to enable them to make appropriate arrangements.
20 th September 2018	Attendees included the Acting RAS and RAS members.	<ul style="list-style-type: none"> ● Discuss the PA compensation schedule disclosure process; and ● Pipeline validation process. 	<ul style="list-style-type: none"> ● Process to be followed to sign-off of the schedules.
10 th December 2018	Attendees included the RC; Acting RAS; TPDC; DCs; DASs; DEDs; and RAS members.	<ul style="list-style-type: none"> ● Project overview and status; ● Stakeholder Engagement; ● ESIA; ● Land acquisition process; ● Local content; ● Community development ● Questions that needed clarification from the presentations; ● Issues and concerns from the invited regional members, and ● Advice and guidance from the RC and various other regional heads of departments and committee members. 	<ul style="list-style-type: none"> ● Security of the pipeline during construction and operation; ● Strategy to ensure people vacate their land; ● Provision of Project reports to the district; ● Recommend signing of valuation reports after completion of supplementary valuations only and provision of supplementary report info; ● Compensation payments within 60 m Reserved Land alongside the Kagera river; and ● Caution when passing through Missenyi since it is a war zone.

Meeting Date	Government Ministry / Department / Region	Purpose / Objectives	Issues / Topics Discussed
5 th March 2019	Attendees included ME; MLHSD; TFS; Tanzania National Parks Authority (TANAPA); TAWA; MNRT; and NEMC.	<ul style="list-style-type: none"> • Confirmation of Reserved Land defined as protected / reserve areas that is traversed by pipeline corridor; • Game Reserves, Game Controlled Areas, Open Areas, National Parks, Forest Reserves and community / village forests traversed by the pipeline corridor: <ul style="list-style-type: none"> - Gazettement Notices; - Status of Talamai Open Area; - Restricted activities under the Wildlife Conservation Act 2009 (WCA 2009) and permits for licensed activities and / or customary ROO issued; - Valuation and compensation process within these reserves / areas; - Compensation entitlements of the Management Authority / Reserved Land Authorities; - Confirmation of boundaries and management arrangements of community / village forests; • Conversion of Reserved Land (within protected / reserve areas) to General Land – process and timing; and • Management of pipeline corridor through the protected / reserve areas. 	<ul style="list-style-type: none"> • Boundary information of protected / reserve areas; • Valuation and compensation process for PAPs within protected / reserve areas; • Compensation of land within protected / reserve areas; • Type, status and ownership of Forest Reserves; • Biharamulo Forest Reserve in the process of becoming a National Park; • Biharamulo Forest Reserve boundaries; • Swagaswaga Game Reserve; • Villages in close proximity to the Swagaswaga Game Reserve; • Talamai Open Area does not have protected / reserved area status; • Talamai Open Area management; • Kitwai and Handeni Game Controlled Areas boundaries; • Minziro, Ruiga River, Biharamulo, Uyovu, Ngogwa Busangi, Mkwani Hills and North Mwakalundi Forest Reserves; • Agreement that was previously made to convert Reserved Land within the pipeline corridor to General Land; • International Finance Corporation (IFC) standards; • Spiritual and cultural sites; and • List of villages crossed by the pipeline route within the boundaries of protected / reserve areas.
11 th March 2019	Attendees included the Acting RC; DAS; DEDs; and RAS members.	<ul style="list-style-type: none"> • Project Overview and status; • Stakeholder engagement; • The ESIA; • Land acquisition and resettlement planning; and • Land acquisition and resettlement implementation. 	<ul style="list-style-type: none"> • Importance of record keeping, including grievance resolution process; • Timeous payment of compensation and a clear message in this regard to ensure fairness towards PAPs; • In-kind and cash compensation; • Rates used to pay damage fee for damage to crops / land / structures; • Sharing of Project timeframes and reports; • Contractors must report at district offices; • Land dispute at Kilimilile Ward had been resolved; • Timeous identification of replacement land and criteria applied to identify this land; and • Sharing of Biharamulo Forest Reserve and Biharamulo Game Reserve strip maps.

Meeting Date	Government Ministry / Department / Region	Purpose / Objectives	Issues / Topics Discussed
24 th June 2019	Attendees included the RC; RAS; RAS members; TANESCO; TARURA; TRA; DCs; and DASs.	<ul style="list-style-type: none"> • Project Overview and status; • PA RAP Disclosure; • Stakeholder engagement; • The ESIA; • Land acquisition and resettlement planning; and • Land acquisition and resettlement implementation. 	<ul style="list-style-type: none"> • Timeous payment of compensation to ensure fairness towards PAPs; • Recommendation to put notifications and information on village notice boards to ensure spouses, also those living further away, get information; • Recommendation to ensure spouses are involved in the process to ensure they know their rights; • Compensation payment still outstanding and timing in relation to the ESIA; and • Safety of pipeline.
5 th March 2019	Attendees included the MoE; MLHSD; TFS; Tanzania National Parks Authority (TANAPA); TAWA; MNRT; and NEMC.	<ul style="list-style-type: none"> • Confirmation of Reserved Land defined as protected / reserve areas that is traversed by pipeline corridor; • Game Reserves, Game Controlled Areas, Open Areas, National Parks, Forest Reserves and community / village forests traversed by the pipeline corridor: <ul style="list-style-type: none"> - Gazettement Notices; - Status of Talamai Open Area; - Restricted activities under the Wildlife Conservation Act 2009 (WCA 2009) and permits for licensed activities and/or customary Right of Occupancy's (ROO) issued; - Valuation and compensation process within these reserves / areas; - Compensation entitlements of the Management Authority / Reserved Land Authorities; • Confirmation of boundaries and management arrangements of community / village forests; • Conversion of Reserved Land (within protected / reserve areas) to General Land – process and timing; and • Management of pipeline corridor through the protected / reserve areas. 	<ul style="list-style-type: none"> • Boundary information of protected / reserve areas; • Valuation and compensation process for PAPs within protected / reserve areas; • Compensation of land within protected / reserve areas; • Type, status and ownership of Forest Reserves; • Biharamulo Forest Reserve in the process of becoming a National Park; • Biharamulo Forest Reserve boundaries; • Swagaswaga Game Reserve; • Villages in close proximity to the Swagaswaga Game Reserve; • Talamai Open Area does not have protected / reserved area status; • Talamai Open Area management; • Kitwai and Handeni Game Controlled Areas boundaries; • Minziro, Ruiga, Biharamulo, Uyovu, Ngogwa Busangi. Mkweni Hills and North Makere Forest Reserves; • Agreement that was previously made to convert Reserved Land within the pipeline corridor to General Land; • International Finance Corporation (IFC) standards; • Spiritual and cultural sites; and • List of villages crossed by the pipeline route within the boundaries of protected / reserve areas.
4 th October 2019	Attendees included the DCs; DAS'; and	<ul style="list-style-type: none"> • Project update; • RAP Planning and implementation update; • ESIA status; 	<ul style="list-style-type: none"> • Continuation of farming activities after cut-off; • District engagement plan;

Meeting Date	Government Ministry / Department / Region	Purpose / Objectives	Issues / Topics Discussed
	DEDs;	<ul style="list-style-type: none"> • Grievance management; and • Stakeholder engagement. 	<ul style="list-style-type: none"> • District capacity to handle queries with EACOP CRCs / CLOs leaving; and • Share experience of Project for learning.
Ongoing discussions from September 2017 to date	Attendees included the MLHSD and the CV.	<ul style="list-style-type: none"> • Discuss and finalize land and crop rates, and rates for economic trees not listed in the 2012 schedule; and • Discuss VRs and Compensation Schedules. 	<ul style="list-style-type: none"> • Discussions revolve around the valuation process, compensation rates, application of the new Valuation & Valuers (General) Regulations 2018 (released after the valuation surveys and during the preparation of the VRs) and the valuation of unlisted trees³.

³ Issues raised at these meetings have been addressed as part of the development of the RAP strategy and therefore responses are reflected in the drafting of this document as appropriate, as well as in planning and implementation activities more generally.

Table C-8: Overview of District, Ward, Village and PAP Meetings - RAP Consultation and Engagement

Meeting Date	Engagement	Stakeholders	Purpose	Issues / Topics Discussed
16 th May-25 th June 2018.	District sensitization meetings.	Generally attended by the: DC and DED.	<ul style="list-style-type: none"> • Provide information on the survey process and discuss oversight and support of GoT during the surveys; • Provide notice to complete asset registration and delineation of lands; • Inform stakeholders on the purpose of valuation, procedures involved, duration of the valuation exercise, applicable compensation rates and legal rights and obligations of PAPs; • Inform PAPs of assets to be recorded and recording mechanisms; • Discuss base compensation rates; • Disclosure of the cut-off date; and • Disclose and discuss the grievance procedure. 	See Table C-10.
	Ward Development Council (WDC) sensitization meetings.	Generally attended by the: WDC members; WEO; district land officer; and district valuer.		
	Village Development Council (VDC), and Assembly sensitization meetings.	Generally attended by the: Ward councilor; WEO; VEO; Village chairperson; Development council members; WDC members; District land officer; District valuer; Central government officials; Villagers; and PAPs.		
17 th May-2 nd August 2018	Land delineation, asset inventory and socio-economic household survey.	PAPs / Project Affected Households (PAHs).	<ul style="list-style-type: none"> • Collect socio-economic information for the PAPs / PAHs using a structured questionnaire; • Compile an asset inventory to generate Valuation Form No. 3 for each PAP and for the development of the land and asset schedules displayed on village notice boards; and • Determine the size of the land affected through the land delineation survey. This information was displayed on Valuation Form No. 3 and the asset schedule. 	Where issues could not be solved, grievances were raised and submitted via the EACOP grievance procedure.
10 th December 2018-ongoing	District validation meetings.	Generally attended by the: DC; RAS; DED, valuers; and surveyors.	<ul style="list-style-type: none"> • Create awareness on the crude oil pipeline project in general and validation process in particular; • Role of the DC, district officials (land officer, community development officer (CDO) and district valuer) in the validation process; • Discuss grievances / concerns which were raised; and • Completion of pipeline and the need for mitigation measures. 	See Table C-10.

Meeting Date	Engagement	Stakeholders	Purpose	Issues / Topics Discussed
	WDC Validation meetings.	WDC members.	<ul style="list-style-type: none"> • Create awareness of the crude oil pipeline project in general and validation process in particular; and • Role of the WDC in the validation process. 	See Table C-10.
	VDC, Village Assembly and individual validation meetings.	VDC members and PAPs / PAHs.	<ul style="list-style-type: none"> • Inform PAPs about any modification in land requirements resulting from internal assessment of provisional survey findings; and • Determine if any queries or grievances had been lodged in respect of the information that was recorded on the asset inventory appearing in their Valuation Form No. 3 against the publicly displayed schedule, or on both. 	See Table C-10.
30 th October 2018-31 st January 2019	Interviews and / or focus groups by SELI teams.	PAPs / PAHs and district / ward / village / mtaa representatives.	<p>To gain a deeper understanding of the following themes to enhance and enrich the RAP development (the focus of discussions was not on Project issues and concerns):</p> <ul style="list-style-type: none"> • Current livelihoods and implication for livelihood restoration requirements and implementation, with consideration of gender differences: <ul style="list-style-type: none"> ○ Use of land in the district, challenges and process to gain access to land; ○ Type of agricultural crops cultivated; ○ Agricultural seasons for these crops, including land preparation, planting and harvesting time; ○ Land and cash income required for household use; ○ Agricultural projects and programs active in the area, challenges experienced and responses to these; ○ Recommended livelihoods restoration approaches; ○ Mining practices. • Vulnerability: <ul style="list-style-type: none"> ○ Definition of vulnerability in the local context; ○ Assistance rendered to the vulnerable; • Natural resource use and access to natural resources; • Replacement land (building on studies already done): <ul style="list-style-type: none"> ○ Availability of replacement land; • Community development activities; • Community dynamics: <ul style="list-style-type: none"> ○ Settlement patterns; ○ Ethnic groups; ○ Role and status of women; ○ Conflict resolution; ○ Religious and spiritual beliefs; ○ Celebrations and rituals; and 	Information provided during these discussions informed and shaped the development of this RAP and the RAP activities and therefore responses are reflected in the drafting of this document as appropriate, as well as in planning and implementation activities more generally.

Meeting Date	Engagement	Stakeholders	Purpose	Issues / Topics Discussed
			<ul style="list-style-type: none"> ○ Burial practices; ● Access to, and challenges with social services (education, health, financial, commercial) and facilities (water, sanitation, electricity); and ● Type and role of NGOs, community-based organizations (CBOs) and community associations. 	
15 th January 2019	Validation of Forest Reserve areas.	Attendees included the DED; DC; and TAWA,	<p>Discuss the</p> <ul style="list-style-type: none"> ● Project area and context; ● Legal/legislative framework in validation processes; ● Ascertain data accuracy; ● Verify methodology used; ● Recording the biodiversity; 	Issues were not raised.
2 nd -19 th September 2019	Disclosure of Compensation Schedule meetings.	Introductory meeting with the DC, sometimes combined with the DED or alternatively a separate meeting with the DED. WDC and VDC meetings with PAPs separate or combined.	<ul style="list-style-type: none"> ● Communicate the intention to disclose the compensation schedules.. 	See Table C-10.
2 nd -20 th September 2019	Compensation Schedule disclosure to PAPs: Personal, private meetings and focus group meetings.	PAPs.	<ul style="list-style-type: none"> ● Disclosure of the compensation schedules; ● Sign acknowledgment that schedule was seen and discussed; ● Identify and solve issues; ● Submit grievances; and ● Discuss general concerns and questions in a group. 	See Table C-10.

Table C-9: Overview of Focus Group Discussions – Livelihood Restoration (SELI)

No.	Date	Region	District	Ward	Village (Hamlet)	Position / Representatives	Gender (Female / Male / Mixed)	Number of Participants (excluding SELI)
1	30 th October 2018	Kagera	Biharamulo			DC and DED	Mixed	2
2	30 th October 2018	Kagera	Biharamulo			DED District Planning Land Officer (DPLO) District Environmental Management Officer (DEMO) District Lands and Natural Resources Officer (DLNRO) District Human Resource Officer (DHRO) District Community Development Officer (DCDO) District Agriculture, Irrigation and Livestock Cooperatives Office (DAICO) District Land Officer (DLO)	Mixed	9
3	30 th October 2018	Kagera	Biharamulo			Manager Project Anti- Poaching Officer	Male	2
4	1 st November 2018	Kagera	Biharamulo	Nyamigogo	Nyamigogo	WDC VDC	Mixed	22
5	2 nd November 2018	Kagera	Missenyi			DED	Mixed	8
6	2 nd November 2018	Kagera	Missenyi			DED CDO DAICO	Mixed	4

No.	Date	Region	District	Ward	Village (Hamlet)	Position / Representatives	Gender (Female / Male / Mixed)	Number of Participants (excluding SELI)
7	11 th March 2018	Kagera	Missenyi	Nsunga	Igayaza	Village Chair	Male	1
8	11 th March 2018	Kagera	Missenyi	Nsunga	Igayaza	Head of School	Mixed	2
9	3 rd November 2018	Kagera	Missenyi	Nsunga	Igayaza	In charge Commanding Officer (CO)	Male	1
10	5 th November 2018	Kagera	Missenyi	Nsunga	Igayaza	VDC	Mixed	12
11	5 th November 2018	Kagera	Missenyi			DC CDO	Mixed	2
12	6 th November 2018	Kagera	Missenyi			WDC	Mixed	17
13	7 th November 2018	Kagera	Missenyi			DC DAS	Mixed	2
14	7 th November 2018	Kagera	Muleba	Kyebitembe	Kasindaga	VEO Hamlet leaders	Mixed	3
15	7 th November 2018	Kagera	Muleba			DED	Male	1
16	9 th November 2018	Kagera	Bukoba			RAS Acting Agricultural Officer (Ag. AO)	Male	2
17	9 th November 2018	Kagera	Bukoba			DED	Male	1
18	9 th November 2018	Kagera	Bukoba			DAICO	Male	1
19	9 th November 2018	Kagera	Bukoba			DC	Male	1
20	9 th November 2018	Kagera	Bukoba			Economist	Male	2
21	9 th November 2018	Kagera	Bukoba			District Livestock and Fisheries Officer (DLFO)	Male	1
22	9 th November 2018	Kagera	Bukoba			DEMO	Male	1
23	10 th November 2018	Kagera	Bukoba	Kyaitoke	Kyaitoke	Village Officer	Male	1
24	11 th November 2018	Kagera	Bukoba	Kyaitoke	Kyaitoke	VDC	Mixed	25
25	12 th November 2018	Kagera	Bukoba	Kyaitoke	Kyaitoke	Elders	Mixed	11

No.	Date	Region	District	Ward	Village (Hamlet)	Position / Representatives	Gender (Female / Male / Mixed)	Number of Participants (excluding SELI)
26	12 th November 2018	Kagera	Bukoba	Kyaitoke	Kyaitoke	PAPs	Female	15
27	14 th November 2018	Kagera	Muleba	Bisheke		WDC	Mixed	21
28	14 th November 2018	Kagera	Muleba	Kyaitoke	Milanda	VDC	Mixed	19
29	15 th November 2018	Kagera	Muleba	Kyaitoke	Milanda	PAPs	Male	11
30	16 th November 2018	Kagera	Muleba	Kyebitembe	Kasindaga	VDC	Mixed	21
31	16 th November 2018	Kagera	Muleba	Kyebitembe	Kyebitembe	PAPs	Female	10
32	16 th November 2018	Kagera	Muleba	Kyebitembe	Kasindaga (Shanje)	PAPs	Female	26
33	19 th November 2018	Kagera	Muleba	Karambi	Karambi	WDC / VDC	Mixed	34
34	19 th November 2018	Kagera	Muleba	Karambi	Karambi	PAPs	Female	13
35	19 th November 2018	Kagera	Muleba	Karambi	Karambi (Murungu)	PAPs	Mixed	12
36	20 th November 2018	Kagera	Muleba	Karambi	Kiguzi	VDC	Mixed	17
37	20 th November 2018	Kagera	Muleba	Karambi	Kiguzi	Elders	Mixed	5
38	21 st November 2018	Kagera	Muleba	Karambi	Karambi (Murungu)	School	Mixed	7
39	21 st November 2018	Kagera	Muleba	Karambi	Karambi	PAPs	Female	13
40	21 st November 2018	Kagera	Muleba	Karambi	Kiguzi	PAPs	Female	10
41	21 st November 2018	Kagera	Muleba	Karambi	Kiguzi	PAPs	Male	19
42	22 nd November 2018	Kagera	Muleba	Karambi	Kanyamika	VDC	Mixed	20
43	22 nd November 2018	Kagera	Muleba	Karambi	Karambi (Mrimane)	PAPs	Mixed	15
44	22 nd November 2018	Kagera	Muleba	Karambi	Karambi (Mrimane)	PAPs	Female	19
45	23 rd November 2018	Kagera	Muleba	Karambi	Kanyamika (Songambebe)	PAPs	Mixed	27
46	26 th November 2018	Kagera	Muleba	Kasharunga		WDC	Mixed	12
47	26 th November 2018	Kagera	Muleba	Kasharunga	Kiteme	PAPs	Mixed	25
48	27 th November 2018	Kagera	Muleba	Kasharunga	Kiteme (Kikoro)	PAPs	Female	9
49	27 th November 2018	Kagera	Muleba	Kasharunga	Kiteme (Kyamata)	PAPs	Female	7

No.	Date	Region	District	Ward	Village (Hamlet)	Position / Representatives	Gender (Female / Male / Mixed)	Number of Participants (excluding SELI)
50	27 th November 2018	Kagera	Muleba	Kasharunga	Kiteme (Kikoro)	PAPs	Male	13
51	27 th November 2018	Kagera	Muleba	Kasharunga	Kiteme (Kyamata)	PAPs	Male	18
52	28 th November 2018	Kagera	Muleba	Mubunda	Kikagate	PAPs	Mixed	20
53	28 th November 2018	Kagera	Muleba	Mubunda	Kikagate	Elders	Mixed	21
54	29 th November 2018	Kagera	Muleba	Mubunda	Kikagate	PAPs	Female	14
55	29 th November 2018	Kagera	Muleba	Mubunda	Kikagate	PAPs	Male	9
56	30 th November 2018	Kagera	Muleba	Mubunda	Kikagate (Nyakika)	PAPs	Mixed	19
57	30 th November 2018	Kagera	Muleba	Burungura	Kakoma	PAPs	Mixed	8
58	3 rd December 2018	Kagera	Muleba	Ngenge	Ngenge	PAPs	Female	9
59	3 rd December 2018	Kagera	Muleba	Ngenge	Ngenge (Rukunya)	PAPs	Female	15
60	3 rd December 2018	Kagera	Muleba	Ngenge	Ngenge	PAPs	Mixed	20
61	3 rd December 2018	Kagera	Muleba	Ngenge	Ngenge (Rukunya)	PAPs	Male	14
62	4 th December 2018	Kagera	Muleba	Ngenge	Rwigenge (Kiramba)	PAPs	Mixed	16
63	4 th December 2018	Kagera	Muleba	Ngenge	Rwigenge (Kaiho)	PAPs	Mixed	16
64	4 th December 2018	Kagera	Muleba	Ngenge	Nyakanyasi	PAPs	Female	16
65	4 th December 2018	Kagera	Muleba	Ngenge	Nyakanyasi	PAPs	Female	14
66	4 th December 2018	Kagera	Muleba	Ngenge	Nyakanyasi	PAPs	Male	13
67	4 th December 2018	Kagera	Muleba	Ngenge	Nyakanyasi	PAPs	Male	20
68	5 th December 2018	Kagera	Muleba	Ngenge	Rwigembe	PAPs	Female	8
69	5 th December 2018	Kagera	Muleba	Ngenge	Nyakanyasi	PAPs	Male	8
70	6 th December 2018	Kagera	Muleba	Ngenge	Kishuro	PAPs	Male	12
71	6 th December 2018	Kagera	Muleba	Ngenge	Kishuro (Omukinyungu)	PAPs	Mixed	13
72	6 th December 2018	Kagera	Muleba	Ngenge	Nyakanyasi (Nyakalembe)	PAPs	Male	30
73	6 th December 2018	Kagera	Muleba	Ngenge	Kishuro	PAPs	Female	9

No.	Date	Region	District	Ward	Village (Hamlet)	Position / Representatives	Gender (Female / Male / Mixed)	Number of Participants (excluding SELI)
74	7 th December 2018	Kagera	Muleba	Ngenge	Rukindo	Women Community Organization	Female	5
75	7 th December 2018	Kagera	Muleba	Ngenge	Rukindo	PAPs	Female	15
76	7 th December 2018	Kagera	Muleba	Ngenge	Rukindo	PAPs and Non PAPs	Female	12
77	7 th December 2018	Kagera	Muleba	Ngenge	Rukindo	PAPs	Male	15
78	7 th December 2018	Kagera	Muleba	Ngenge	Rukindo	PAPs	Male	13
79	8 th December 2018	Kagera	Biharamulo	Nyamigogo	Kasozibakaya	PAPs	Mixed	14
80	10 th December 2018	Kagera	Bukoba	Rukoma	Nsheshe	PAPs	Mixed	19
81	10 th December 2018	Kagera	Bukoba	Rukoma	Nsheshe	PAPs	Female	10
82	11 th December 2018	Kagera	Bukoba	Kibirizi	Kamuli	PAPs	Male	33
83	11 th December 2018	Kagera	Bukoba	Kibirizi	Kamuli	PAPs	Female	15
84	12 th December 2018	Kagera	Bukoba	Kibirizi	Kamuli	PAPs	Mixed	14
85	13 th December 2018	Kagera	Bukoba	Kyaitoke	Rugaze	PAPs	Mixed	21
86	13 th December 2018	Kagera	Bukoba	Kibirizi	Rugaze	PAPs	Male	13
87	13 th December 2018	Kagera	Bukoba	Kibirizi	Rugaze	PAPs and Non PAPs	Female	10
88	14 th December 2018	Kagera	Bukoba	Kibirizi	Kyaitoke	PAPs	Male	31
89	14 th December 2018	Kagera	Bukoba	Kibirizi	Kyaitoke	PAPs	Female	8
90	14 th December 2018	Kagera	Bukoba	Kibirizi	Kyaitoke	PAPs	Mixed	22
91	14 th December 2018	Kagera	Bukoba	Izimbya	Izimbya	PAPs	Mixed	6
92	15 th December 2018	Kagera	Bukoba	Mugajwale	Kobunshwi	PAPs	Male	17
93	15 th December 2018	Kagera	Bukoba	Mugajwale	Kobunshwi	PAPs	Female	16
94	15 th December 2018	Kagera	Bukoba	Mugajwale	Kyamulaile	PAPs	Mixed	15
95	15 th December 2018	Kagera	Bukoba	Mugajwale	Kobunshwi	PAPs	Mixed	32
96	17 th December 2018	Kagera	Bukoba	Mugajwale	Mugajwale	PAPs	Mixed	31
97	17 th December 2018	Kagera	Bukoba	Mugajwale	Mugajwale	PAPs	Female	12

No.	Date	Region	District	Ward	Village (Hamlet)	Position / Representatives	Gender (Female / Male / Mixed)	Number of Participants (excluding SELI)
98	17 th December 2018	Kagera	Bukoba	Mugajwale	Mugajwale	PAPs	Male	13
99	14 th January 2019	Kagera	Missenyi	Kilimilile	Kilimilile (Kyamala)	PAPs	Male	13
100	14 th January 2019	Kagera	Missenyi	Kilimilile	Kilimilile (Kyamala)	PAPs	Mixed	16
101	15 th January 2019	Kagera	Missenyi	Kyaka	Bulifani	PAPs	Mixed	15
102	15 th January 2019	Kagera	Missenyi	Kyaka	Bulifani	PAPs	Mixed	9
103	15 th January 2019	Kagera	Missenyi			CDO	Mixed	4
104	15 th January 2019	Kagera	Missenyi			Livestock Keeper	Mixed	5
105	16 th January 2019	Kagera	Missenyi	Kilimilile	Kilimilile (Kakinga)	PAPs	Male	19
106	16 th January 2019	Kagera	Missenyi	Kilimilile	Kilimilile (Kakinga)	PAPs	Female	9
107	17 th January 2019	Kagera	Missenyi	Kasambya	Nyabihanga (Kagasha)	PAPs	Male	21
108	17 th January 2019	Kagera	Missenyi	Kasambya	Nyabihanga	PAPs	Female	12
109	17 th January 2019	Kagera	Missenyi	Kasambya	Kasambya	PAPs	Male	14
110	17 th January 2019	Kagera	Missenyi	Kasambya	Kasambya	PAPs	Mixed	9
111	21 st January 2019	Kagera	Missenyi	Kasambya	Mabuye	PAPs	Mixed	11
112	21 st January 2019	Kagera	Missenyi	Kasambya	Mabuye	Beekeepers	Mixed	8
113	21 st January 2019	Kagera	Missenyi	Kasambya	Mabuye	PAPs	Male	18
114	21 st January 2019	Kagera	Missenyi	Kasambya	Mabuye	PAPs	Female	21
115	22 nd January 2019	Kagera	Bukoba	Mugajwale	Mugajwale	PAPs	Male	13
116	22 nd January 2019	Kagera	Bukoba	Mugajwale	Mugajwale	Male Entrepreneurship	Male	12
117	22 nd January 2019	Kagera	Bukoba	Mugajwale	Mugajwale	PAPs	Female	10
118	22 nd January 2019	Kagera	Bukoba	Mugajwale	Mugajwale	Female Entrepreneurship	Female	18
119	22 nd January 2019	Kagera	Missenyi	Nsunga	Igayaza (Kigwanga)	PAPs	Mixed	21
120	22 nd January 2019	Kagera	Missenyi	Nsunga	Igayaza (Kigwanga)	PAPs	Male	10

No.	Date	Region	District	Ward	Village (Hamlet)	Position / Representatives	Gender (Female / Male / Mixed)	Number of Participants (excluding SELI)
121	22 nd January 2019	Kagera	Bukoba	Mugwajale	Mugwajale	Agricultural Extension Officer	Mixed	2
122	22 nd January 2019	Kagera	Missenyi			Agricultural Extension Officer	Mixed	3
123	23 rd January 2019	Kagera	Missenyi	Nsunga	Byamtemba	VEO	Mixed	2
124	23 rd January 2019	Kagera	Bukoba	Kyamulaile	Kyamulaile	Beekeepers and Agricultural Extension Officer (AEO)	Mixed	11
125	23 rd January 2019	Kagera	Missenyi	Nsunga	Byamtemba (Kabwoba)	PAPs	Mixed	6
126	23 rd January 2019	Kagera	Missenyi	Nsunga	Byamtemba	Youth Group	Mixed	5
127	23 rd January 2019	Kagera	Bukoba	Kyamulaile	Kyamulaile	PAPs	Mixed	28
128	24 th January 2019	Kagera	Missenyi	Mutukula	Mutukula	PAPs	Mixed	19
129	24 th January 2019	Kagera	Missenyi	Mutukula	Mutukula	Tanzania Revenue Authority (TRA)	Mixed	4
130	24 th January 2019	Kagera	Missenyi			LFOs	Mixed	5
131	25 th January 2019	Kagera	Missenyi			Nutritional Officers	Mixed	3
132	25 th January 2019	Kagera	Missenyi	Nsunga	Igayaza	Dispensary	Mixed	3
133	26 th January 2019	Kagera	Bukoba			Mbae's Fish Farm	Mixed	9
134	27 th January 2019	Kagera	Missenyi			Kagera Sugar General Manager	Mixed	6
135	28 th January 2019	Kagera	Missenyi			Economic Officer	Mixed	2
136	28 th January 2019	Kagera	Missenyi			CDO	Mixed	3
137	28 th January 2019	Kagera	Missenyi			Water Department	Mixed	3
138	29 th January 2019	Kagera	Missenyi			Kagera Sugar Cane Growers Association	Mixed	12
139	29 th January 2019	Kagera	Missenyi			DC	Mixed	5
140	29 th January 2019	Kagera	Bukoba			Maruku Manager	Mixed	5

No.	Date	Region	District	Ward	Village (Hamlet)	Position / Representatives	Gender (Female / Male / Mixed)	Number of Participants (excluding SELI)
141	29 th January 2019	Kagera	Bukoba			Planning Officer	Mixed	4
142	29 th January 2019	Kagera	Bukoba			CDO	Mixed	5
143	29 th January 2019	Kagera	Bukoba			DED	Mixed	5
144	30 th January 2019	Kagera	Bukoba			Water Department	Mixed	4
145	30 th January 2019	Kagera	Muleba			DC	Mixed	7
146	30 th January 2019	Kagera	Muleba			DED	Mixed	7
147	31 st January 2019	Kagera	Bukoba			Lake Victoria Basin Office	Mixed	7
148	31 st January 2019	Kagera	Biharamulo			DED	Mixed	5
149	31 st January 2019	Kagera	Biharamulo			DC	Mixed	5
150	31 st January 2019	Kagera	Biharamulo			Armony	Mixed	4

Table C-10: Summary of Issues Raised at District, Ward, Village and PAP Meetings⁴

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Land (access and / or acquisition), Housing and Livelihoods.					
Depth the pipeline will be buried.		X			
Width of the pipeline.		X		X	
Time period between cut-off and payment of compensation.		X			X
Time period between cut-off and notice to evacuate.		X			X
Time period between payment of compensation and land preparation.		X			
When PAPs will be moved.		X			
Laws to be used for compensation and for agreements.		X			
Dealing with PAPs who could not attend valuation.		X			
Method of valuation.		X	X		
Compensation schedule content.					X
Valuation timeframes.			X		
Seasonal crops after cut-off will not be valued.			X	X	
Dealing with encumbrances.			X		
Compensation rates that will be applied.		X			
Land rates and crop rates of 2012 and 2016.				X	
Differences in compensation rates.		X			
Compensation rates to be used.	X		X		X
What is included in compensation amount.		X			

⁴ During the RAP planning, consultations by the Project Stakeholder Engagement team at village, ward, district and regional level were ongoing. Issues relevant to RAP planning were also shared with the RAP Planning consultant in order to inform the resettlement planning and to structure feedback / further engagement with stakeholders.

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Compensation for uncultivated land.		X			
Explanation of level of maturity of crops.		X		X	
Compensation for water sources / management of impact on water sources.		X			
Method of valuation of sugar cane.				X	
Method of valuation of bananas.				X	
Process to follow if dissatisfied with the compensation.				X	
Valuation of land prepared for cultivation.		X			
Details of crops / land and rates will be provided.	X	X			
Differences in crop rates.		X			
Do not want to lose / sell land, suggestion to rather lease land from PAP.		X			
Approach to valuation where intercropping is practiced.			X		
Use of fertilizer not considered during valuation.		X			
Explanation of Orphaned Land.		X			
Use of Orphaned Land.			X		
The size for land to be orphaned and the compensation associated with Orphaned Land.		X	X	X	
Approach to compensation where the pipeline passes through public land.		X			
Approach to compensation where the pipeline passes through an institution.		X			
Compensation of Government Land.		X			
Compensation of public infrastructure.		X			
Compensation of public land.		X			
Treatment of compensation of Village Land / clan land.		X			
Compensation of grazing land.		X			
Compensation for geophysics work done.		X			

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Need for valuers to accompany the teams.	X	X			
Approach to be followed where the landowner has passed away.		X			
Approach to be followed where the landowner is not present.		X			
Party responsible for finding replacement housing.				X	
PAPs should not demolish their houses until they are given permission.			X		
Replacement housing will not be the same but will depend on house size and value.		X		X	
Access to education will be considered when identifying alternative housing.		X			
Whether the village settlement planning approach will be followed for replacement housing.				X	
Improvements / neglect of house after cut-off will not affect the compensation amount.				X	
What to do if house needs improvement after cut-off because compensation takes a long time.				X	
Party responsible for construction of houses.		X			X
Want to use materials of current house to construct a new house. Concern about transportation of materials.				X	
Difference between compensated house and old house.		X		X	
Difference between compensation for mud / thatch houses and brick / corrugated iron houses.		X			
Location of replacement house.				X	
PAPs have identified alternative housing site.				X	
PAPs may use materials they currently use for house construction.		X			
Access to education will be considered when identifying alternative housing.		X			
Availability of replacement land.		X		x	
Implications if a PAP is in the process of selling the land.		X			
PAP wants to use alternative land he / she owns for replacement housing.		X			

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Party responsible for identifying replacement land.				X	
Party responsible for relocating PAP.		X			
Party responsible for finding alternative land.		X			
Party responsible for demolition of structures.		X			
Eligibility where owner has given a family member the piece of land to use for farming.		X			
The method of payment to people without identity cards / the necessary legal documents / a title deed.		X		X	X
Process to follow if VAL Form 3 was taken by Project team but not yet returned.					X
How will payment be made.		X	X		
The method of payment.					
The method of payment for transport and disturbance allowance during resettlement.					X
When will payment happen.	X	X	X	X	
Process to pay compensation is too long.				X	
Project will assist with opening a bank account.					X
People do not have bank accounts to receive the payment.	X	X			
Opening a bank account for a small amount.					
Current bank account may be used.				X	X
Provision of education to manage a bank account.				X	
May representatives be identified to attend surveys / PAP sick.	X	X			X
Use of land during operation.		X		X	
Land within the corridor may not be used for farming during operation.		X		X	
Improvements will not be compensated after cut-off but what if compensation takes a long time.		X			

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Crossing of the corridor will be possible after construction and during construction pathways will be made available, also for pastoralists.		X	X	X	
Road to farm may be used during operation and alternative will be provided during construction.				X	
Concern that compensation money will not be sufficient to buy land.				X	
Compensation will be paid to PAPs only.		X			
If PAP refuses to surrender land legal processes have to be followed.		X			
What if PAP has land in another village area.		X			
If a PAP does not have a spouse, he / she should come alone for survey / disclosure.		X			X
Requirements for involvement of spouses.		X	X		X
Access to the power of attorney.					X
If PAP has more than one spouse, who is to accompany the PAP during the survey.		X			
If PAP has wives and he dies, who will benefit.			X	X	
Compensation when husband and wife own pieces of affected land separately.		X			
Compensation and ownership process if more than one wife owns affected land.		X			
Process to be followed when a PAP dies.	X	X			X
Process to be followed if PAP moves away.				X	
Conditions / qualification for in-kind compensation for land as opposed to cash compensation.				X	
Compensation is low compared to the actual cost.		X			
When all the compensation details and amounts will be revealed.				X	
Cutting of economic trees after cut-off and validation.		X		X	X
Cutting of trees for firewood after cut-off and validation.				X	
Location of trees that will be cut to make space for the corridor.				X	

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Loss of income due to cessation of farming activities.			X		
Will crops planted after cut-off be compensated.			X	X	
Matured crops may be used after valuation.		X			
Harvesting will be allowed when possible, before start of construction.				X	
What will happen during transitional period.		X		X	
Transitional assistance will be provided after compensation had been paid.		X			
Legal and international requirements were followed.					X
Transitional assistance to elderly people.			X	X	
Care of mother and children during the transitional period.		X			
Concern that PA will be elderly and have less strength should the compensation be paid in two (2) years' time.				X	
Assistance with moving furniture.		X			
Assistance with dealing with psychological effect of losing a house.		X			
Unlike experiences with some other projects, compensation will be paid as per the requirements.		X			
Recommendation from stakeholder that payments must be done in installments to prevent misuse of money.				X	
Recommendation that training in money management should be done.				X	
Suggestion to discuss inheritance of land with children after compensation.		X			
Confirmation that cultivation may continue.		X	X		X
Confirmation that land outside the corridor may be cultivated.				X	
Owners do not allow tenant to continue with farming activities after cut-off.				X	
Compensation of tenant.		X			X
Money for education is short due to stopping with cultivation.				X	

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Facing food insecurity due to discontinuation of farming activities after cut-off.				X	
Loss of business income due to discontinuation of activities after cut-off.				X	
Neglect of permanent crops after discontinuation of farming activities after cut-off.				X	
When farming activities should discontinue again.				X	
Concern that construction will start before harvesting.				X	
Valuation of rivers.					X
Protection of water channels during construction.			X		
Farming activities may occur on the border of the pipeline outside the corridor.				X	
Concern about livelihood due to loss of land and crops.				X	
At what stage valuation will no longer be valid.				X	
Concern about impact on TASAF beneficiaries.				X	
Cultural Heritage					
Concern that a grave will not be regarded as a grave if nothing is found in the grave.				X	
Process for identification of graves.		X			
Party responsible for shifting graves.		X		X	
Compensation of trees used for ritual purposes.					
Process to be followed if owners of graves are not known.		X			
Procedures for moving graves.				X	
Process for moving new and old graves is the same.		X			
When graves will be moved.				X	
Where to bury a person after cut-off when burial ground is inside the corridor.		X		X	
Lack of alternative land for graves.			X		
Method of valuation of graves.		X			

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Avoidance of farms and graves.		X			
Employment and Supply Chain.					
Neighbors witnessing the process will not be paid.		X			
Business activities are not allowed in the corridor.		X			
Approach to payment of allowances to village representatives for attending meetings for the Project.	X	X	X		
Allowances for traveling to meetings are not given.				X	
Opportunity for casual work.		X			
Opportunity for employment of youth.		X	X	X	
Employment of women.		X			
Employment of workers without experience.		X			
Employment opportunities for local people in general.		X		X	
Employment opportunities for village.		X			
Women may apply for jobs.		X			
Process to be followed to inform people about job opportunities.			X		
Payment method to employed people.		X			
Rubisi can't be sold to Project workers.		X			
Other Project Related Issues.					
Where processing of the crude oil will happen.		X			X
Concern about animals in Biharamulo Forest / Game Reserve.				X	
Distance covered in the Biharamulo Forest / Game Reserve.	X				
Access to haulage road to Kagera Sugar during construction will have to be managed.				X	
Where soil will be stockpiled.				X	

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
The Project will be responsible for maintenance of the corridor.				X	
Start of the Project.		X			
Concern that the Project will stop without payment of compensation.				X	
What happens after the Project?				X	
Impact of the pipeline during operation.				X	
Negative impacts of the Project.		X			
Type of oil and access to oil / meaning of crude oil.	X	X			
Route of pipeline.	X	X		X	
Location of PAs.		X			
Fuel will not be provided to villages from the pipeline.		X			
Management of roads being used / built by the Project.	X	X		X	
There will not be a road alongside the pipeline.		X		X	
Engagement, Safety, Social Conduct and Security.					
Clarification of the different notices.		X			
Request that information on notice boards be given to leaders as well as a back-up.				X	
Notices on village notice boards get confusing and suggested a Project specific notice board.				X	
Communicate with village leaders before posting information on village structures.			X		
Process of transferral of knowledge if village leader is replaced.		X			
Roles and responsibilities of different teams coming in.		X			
Consideration that not all PAPs are fluent in English.	X		X		
Consideration of PAPs who are hard of hearing.					X
Confidentiality of information.	X				

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Reason for the high number of meetings.		X			
Role of village leaders during survey.					
Give regular feedback to the district about progress.	X		X		
Give sufficient warning about meetings to come.					X
Grievances submitted.			X		
Grievance procedure.		X	X	X	X
Reason for the questions in the socio-economic survey.			X		
Request for CV to be available to solve certain grievances.			X		
Safety of teams whilst conducting social surveys.	X				
Concern about lack of security in village to protect PAPs after compensation had been paid into the bank account.				X	
Dealing with injuries to the public due to the Project.		X			
Dealing with site injuries of workers.		X			
Impact of construction vehicles on health of people will be managed.		X		X	
Party responsible for safety during operation.		X			
Concern about mud houses on the border of the corridor.				X	
Concern that explosions may happen				X	
People will be informed in the event that blasting is planned.		X		X	
Safety concerns when sugarcane is burnt on fields close to the pipeline.			X		
Safety of people living close to the pipeline during construction will be taken seriously.				X	
Dealing with damage to property during construction and operation.				X	
What happens if the construction activities cause cracks in structures.		X		X	
Dealing with conflict about crop valuation between a tenant and the landowner.		X	X		

Issues / Topics Discussed	District Meeting	Ward and Village Sensitization Meeting	Ward and Village Validation Meeting	Ward and Village SELI Meeting	Ward and Village Compensation Schedule Disclosure Meeting
Dealing with land conflict.	X	X	X	X	X
Protect PAPs from being misled by other people.	X				
Management of sexual relations between Project workers and local women / wives.		X			
Protection of moral values of local people during construction.		X			
Accommodation of casual workers during construction.		X			
Husband has hidden the valuation form.				X	
Concerns that husbands will take the money and leave their wives / get more wives.				X	
Concerns that husband will waste the money.				X	
Waste disposal during construction.		X			
Impact of the Project on the environment.				X	
Social Investment Projects.					
Confirmed that social services will not be provided / improved at village / ward level.	X	X	X	X	X
Confirmed that social investment benefits will not be implemented at ward / village level.	X	X		X	X
Benefits to young people.			X		
Benefit to Uganda and Tanzania.			X		
Whether Uganda is jeopardizing the Project.	X				

Appendix D

Replacement Housing and Ancillary Structures Designs

House Type A – 25m²

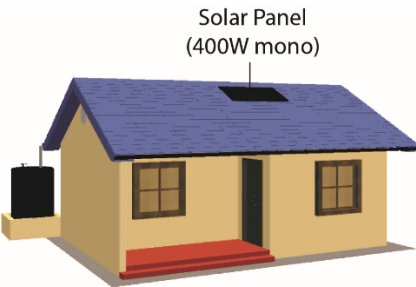
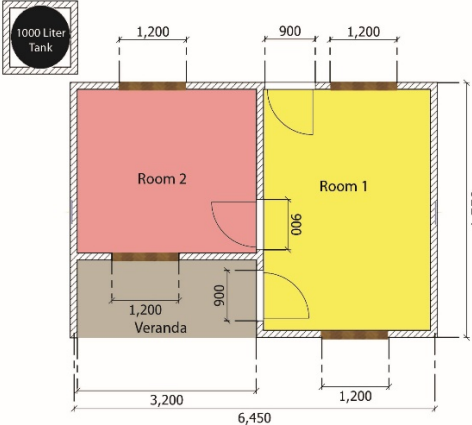
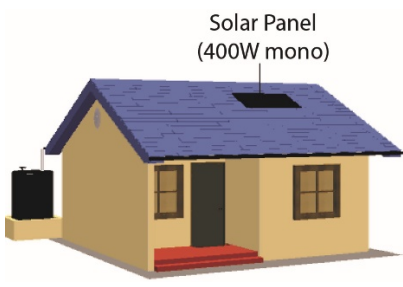

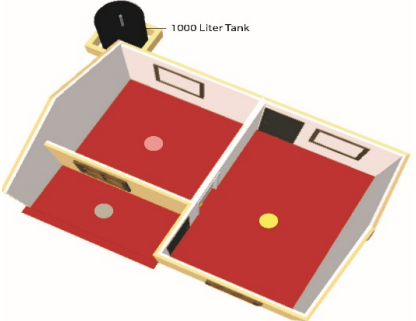
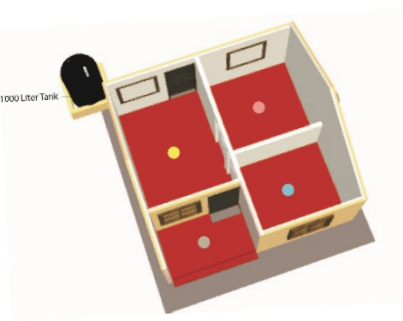
Description: Type A is the smallest of the house types at 25 m². These houses are well lit with natural light through four (4) windows which allows for good cross ventilation, Type A1, A2 and A3 have two (2) external doors and a small covered veranda. Type A1 has two (2) rooms with Type A2 and A3 have three (3) rooms.

Eligibility: Replaces all units less than or equal to 25 m² irrespective of the number of rooms. If the combined footprint of any two (2) houses of a PAP is less than or equal to 25 m² (House Type A), the PAP would be offered for these two (2) houses, one (1) replacement House Type A and cash compensation for the smallest house.

Alternatives: An eligible PAP can choose from one (1) of three (3) floor plans. House Type A1 has two (2) rooms and House Type A2 and A3 both have three (3) rooms.

A1 – 25m² (2 Rooms)

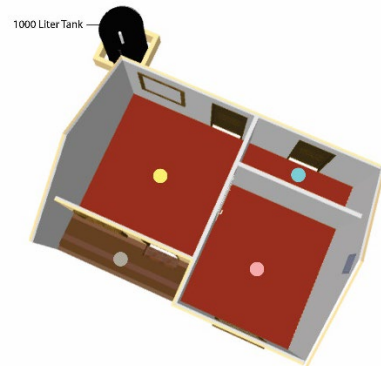
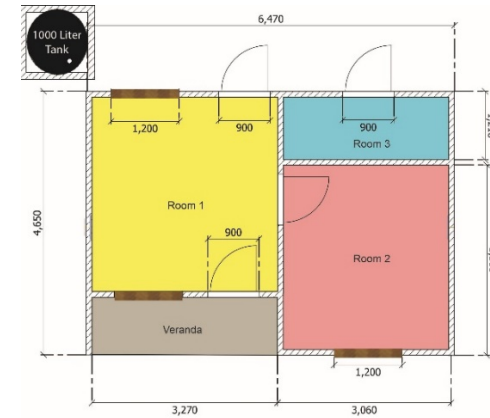
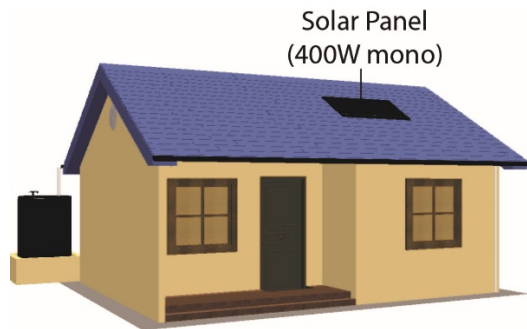
A2 - 25m² (3 Rooms)

 <p>Solar Panel (400W mono)</p>		 <p>Solar Panel (400W mono)</p>															
 <p>1000 Liter Tank</p>	<p style="text-align: center;">Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>14.33m²</td> </tr> <tr> <td>Room 2</td> <td>10.64m²</td> </tr> <tr> <td>Veranda</td> <td>3.55m²</td> </tr> </table>	Room 1	14.33m ²	Room 2	10.64m ²	Veranda	3.55m ²	 <p>1000 Liter Tank</p>	<p style="text-align: center;">Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>9.2m²</td> </tr> <tr> <td>Room 2</td> <td>8.0m²</td> </tr> <tr> <td>Room 3</td> <td>8.0m²</td> </tr> <tr> <td>Veranda</td> <td>3.6m²</td> </tr> </table>	Room 1	9.2m ²	Room 2	8.0m ²	Room 3	8.0m ²	Veranda	3.6m ²
Room 1	14.33m ²																
Room 2	10.64m ²																
Veranda	3.55m ²																
Room 1	9.2m ²																
Room 2	8.0m ²																
Room 3	8.0m ²																
Veranda	3.6m ²																

House Type A – 25m² (CONT)

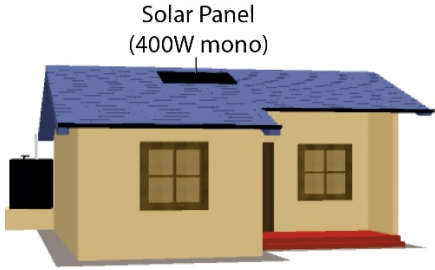

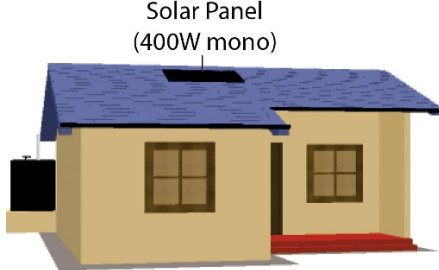
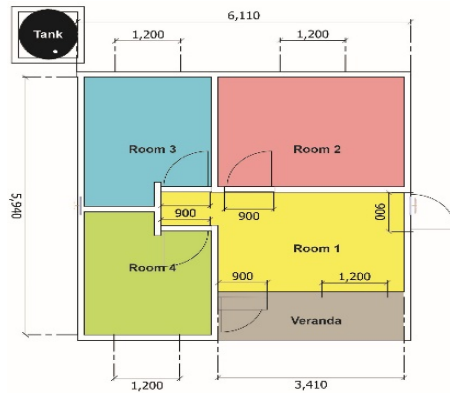
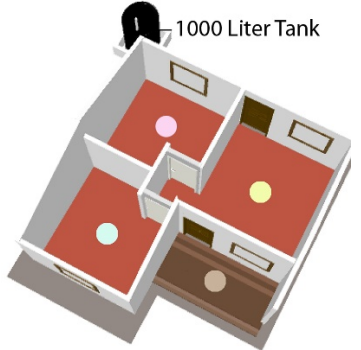
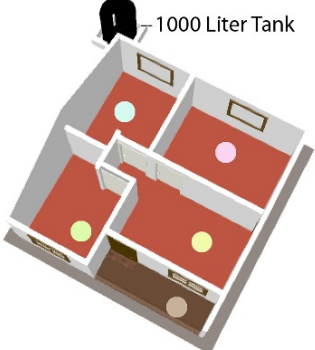
A3 – 25m² (3 Rooms)

Description: Type A3 has two (2) rooms designed for human habitation and a third smaller room (4 m²), specifically to allow for animal husbandry separate to living spaces. This house is well lit with natural light through three (3) windows and three (3) doors which allows for good cross ventilation This alternative design for the 25 m² structure will enable protection for livestock whilst also providing clear separation from sleeping areas within the structure.



Areas

Room 1	11.00m ²
Room 2	10.00m ²
Room 3	4.0 m ²
Veranda	3.20m ²

House Type B – 33m²																					
<p>Description: Type B is 33 m² and is well lit with natural light through four (4) windows which also allows for good cross ventilation, two (2) external doors and a small covered veranda. Type B1 has three (3) rooms and B2 has four (4) rooms as shown below.</p>																					
<p>Eligibility: Replaces all residential dwellings greater than 25 m² but less than or equal to 33 m².</p>																					
<p>Alternative: Like the smaller Type A dwelling, there are two (2) alternative floor plans that an eligible PAP can choose from, including House Type B1 which has three (3) rooms and House Type B2 which has four (4) rooms.</p>																					
B1 – 33m² (3 Rooms)		B2 - 33m² (4 Rooms)																			
 <p>Solar Panel (400W mono)</p>		 <p>Solar Panel (400W mono)</p>																			
 <p>1000 Liter Tank</p>	<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>13.00m²</td> </tr> <tr> <td>Room 2</td> <td>10.16m²</td> </tr> <tr> <td>Room 3</td> <td>10.16m²</td> </tr> <tr> <td>Veranda</td> <td>3.15m²</td> </tr> </table>	Room 1	13.00m ²	Room 2	10.16m ²	Room 3	10.16m ²	Veranda	3.15m ²	 <p>1000 Liter Tank</p>	<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>9.18m²</td> </tr> <tr> <td>Room 2</td> <td>7.9m²</td> </tr> <tr> <td>Room 3</td> <td>7.9m²</td> </tr> <tr> <td>Room 4</td> <td>8.3m²</td> </tr> <tr> <td>Veranda</td> <td>3.6m²</td> </tr> </table>	Room 1	9.18m ²	Room 2	7.9m ²	Room 3	7.9m ²	Room 4	8.3m ²	Veranda	3.6m ²
Room 1	13.00m ²																				
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Room 4	8.3m ²																				
Veranda	3.6m ²																				

House Type C – 39m²

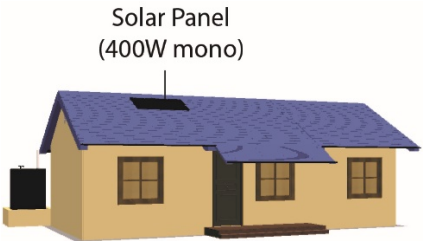
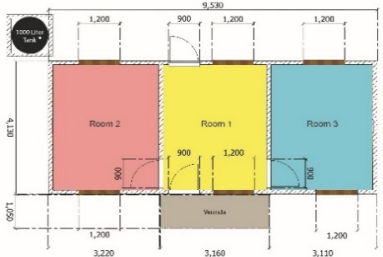
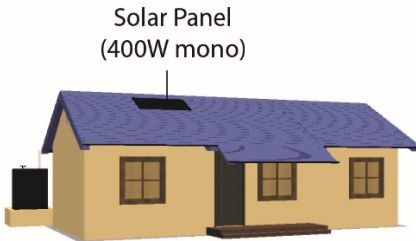

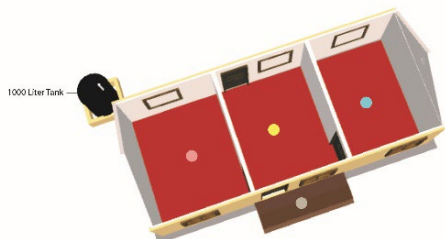
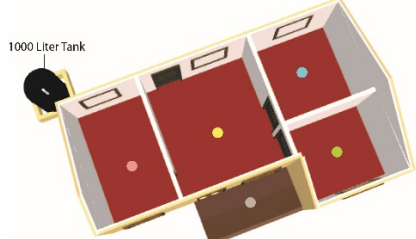
Description: House Type C is 39 m² and is well lit with natural light through six (6) windows, which also allows for good cross ventilation and two (2) external doors. Type C1 has three (3) rooms and C2 has four (4) rooms as shown below.

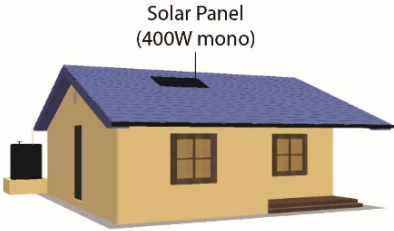

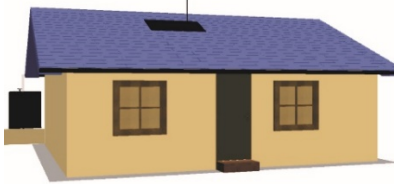
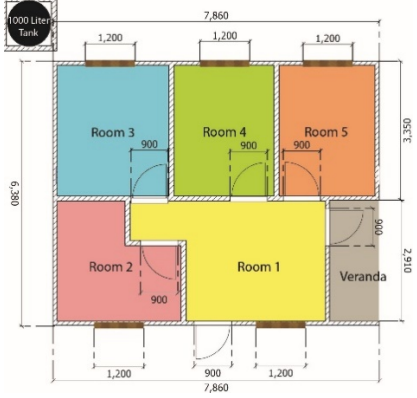
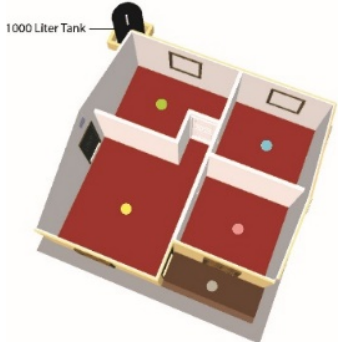
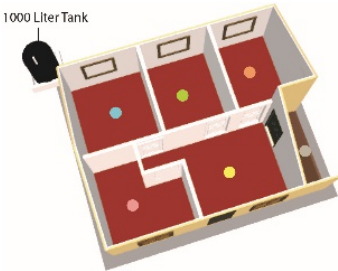
Eligibility: Replaces all residential dwellings greater than 33.1 m² but less than or equal to 39 m².

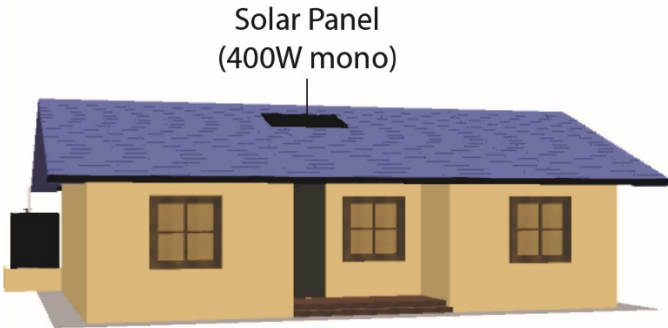
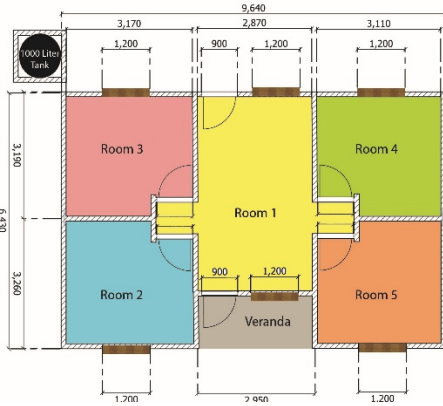
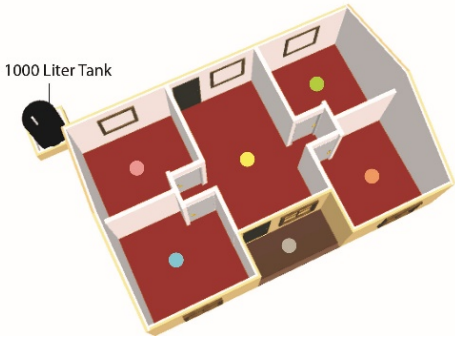
Alternative: There is a choice between the three (3) room Type C1 and the four (4) room Type C2 configuration.

C1 – 39m² (3 Rooms)

C2 - 39m² (4 Rooms)

 <p>Solar Panel (400W mono)</p>		 <p>Solar Panel (400W mono)</p>																			
 <p>1000 Liter Tank</p>	<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>12.96m²</td> </tr> <tr> <td>Room 2</td> <td>13.00m²</td> </tr> <tr> <td>Room 3</td> <td>13.00m²</td> </tr> <tr> <td>Veranda</td> <td>3.00m²</td> </tr> </table>	Room 1	12.96m ²	Room 2	13.00m ²	Room 3	13.00m ²	Veranda	3.00m ²	 <p>1000 Liter Tank</p>	<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>12.18m²</td> </tr> <tr> <td>Room 2</td> <td>10.00m²</td> </tr> <tr> <td>Room 3</td> <td>8.40m²</td> </tr> <tr> <td>Room 4</td> <td>8.40m²</td> </tr> <tr> <td>Veranda</td> <td>4.60m²</td> </tr> </table>	Room 1	12.18m ²	Room 2	10.00m ²	Room 3	8.40m ²	Room 4	8.40m ²	Veranda	4.60m ²
Room 1	12.96m ²																				
Room 2	13.00m ²																				
Room 3	13.00m ²																				
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Room 2	10.00m ²																				
Room 3	8.40m ²																				
Room 4	8.40m ²																				
Veranda	4.60m ²																				

House Type D -47m²																									
<p>Description: House Type D is 47 m² and is well lit with natural light through four (4) windows in D1 and five (5) windows in D2 allowing for good cross ventilation. Both have two (2) external doors and Type D1 has four (4) rooms and D2 has five (5) rooms, as shown below.</p>																									
<p>Eligibility: Replaces all residential dwellings greater than 39.1 m² but less than or equal to 47 m².</p>																									
<p>Alternative: There is a choice between the four (4) room Type D1 and the five (5) room Type D2 configuration.</p>																									
D1 – 47m² (4 Rooms)		D2 - 47m² (5 Rooms)																							
 <p>Solar Panel (400W mono)</p>		 <p>Solar Panel (400W mono)</p>																							
 <p>1000 Liter Tank</p>	<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>16.86m²</td> </tr> <tr> <td>Room 2</td> <td>10.28m²</td> </tr> <tr> <td>Room 3</td> <td>10.28m²</td> </tr> <tr> <td>Room 4</td> <td>10.296m²</td> </tr> <tr> <td>Veranda</td> <td>4.00m²</td> </tr> </table>	Room 1	16.86m ²	Room 2	10.28m ²	Room 3	10.28m ²	Room 4	10.296m ²	Veranda	4.00m ²	 <p>1000 Liter Tank</p>	<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>12.7m²</td> </tr> <tr> <td>Room 2</td> <td>8.8m²</td> </tr> <tr> <td>Room 3</td> <td>8.6m²</td> </tr> <tr> <td>Room 4</td> <td>8.4m²</td> </tr> <tr> <td>Room 5</td> <td>8.6m²</td> </tr> <tr> <td>Veranda</td> <td>3.8m²</td> </tr> </table>	Room 1	12.7m ²	Room 2	8.8m ²	Room 3	8.6m ²	Room 4	8.4m ²	Room 5	8.6m ²	Veranda	3.8m ²
Room 1	16.86m ²																								
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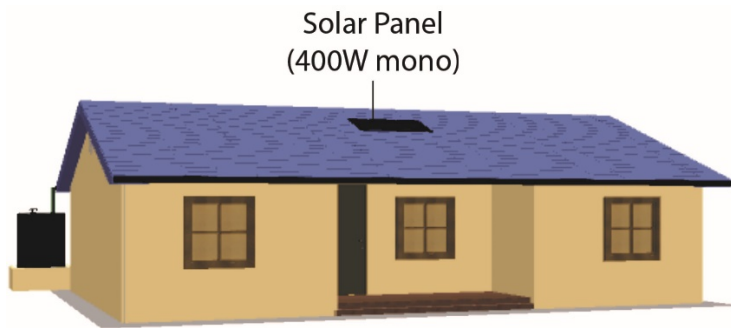
House Type E - 58m²													
<p>Description: Type E is 58 m² and consists of five (5) rooms and a small covered veranda. This house is well lit with natural light through six (6) windows, which also allow for good cross ventilation, and two (2) external doors as shown.</p>													
<p>Eligibility - Replaces all residential dwellings greater than 47.1 m² but less than or equal to 58 m².</p> <p>Alternative - There are no alternative choices in floor plan.</p>													
 <p>Solar Panel (400W mono)</p>													
<p>Areas</p> <table border="0"> <tr> <td>Room 1</td> <td>18.0m²</td> </tr> <tr> <td>Room 2</td> <td>10.0m²</td> </tr> <tr> <td>Room 3</td> <td>10.0m²</td> </tr> <tr> <td>Room 4</td> <td>10.0m²</td> </tr> <tr> <td>Room 5</td> <td>10.0m²</td> </tr> <tr> <td>Veranda</td> <td>3.15m²</td> </tr> </table>	Room 1	18.0m ²	Room 2	10.0m ²	Room 3	10.0m ²	Room 4	10.0m ²	Room 5	10.0m ²	Veranda	3.15m ²	 <p>1000 Liter Tank</p>
Room 1	18.0m ²												
Room 2	10.0m ²												
Room 3	10.0m ²												
Room 4	10.0m ²												
Room 5	10.0m ²												
Veranda	3.15m ²												

House Type F - 75m²

Description: Type F is 75m² and consists of five (5) rooms and a small covered veranda as shown below. This house is well lit with natural light provided from six (6) windows that also allow for good cross ventilation with two (2) external doors.

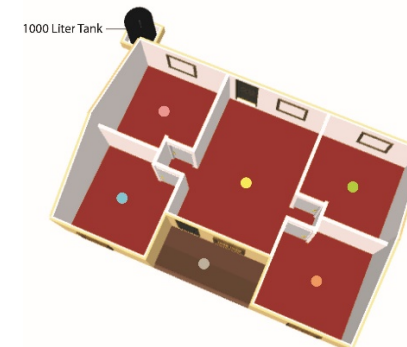
Eligibility – Replaces all residential dwellings greater than 58.1 m² but less than or equal to 75 m²

Alternative - There are no alternative choices in floor plan.



Areas

Room 1	23.5m ²
Room 2	12.9m ²
Room 3	12.9m ²
Room 4	12.9m ²
Room 5	12.9m ²
Veranda	6.66m ²

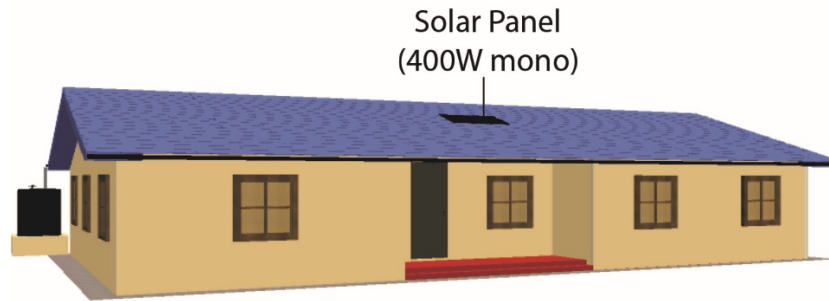


House Type H 145m²

Description: Type H is the biggest (145 m²) of the house types and consists of eight (8) rooms and two (2) small covered verandas as shown below. This house is well lit with natural light provided from thirteen (13) windows that also allow for good cross ventilation with three (3) external doors.

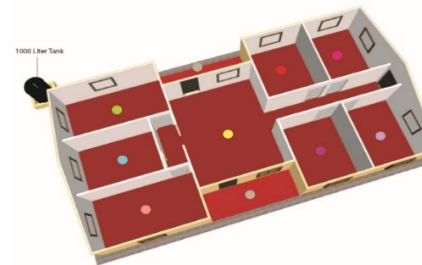
Eligibility – Replaces all residential dwellings greater than 105.1 m² but less than or equal to 145 m².

Alternative - There are no alternative choices in floor plan.



Areas

Room 1	30.10 m ²	Room 5	13.90 m ²
Room 2	17.30 m ²	Room 6	13.90 m ²
Room 3	12.73 m ²	Room 7	13.90m ²
Room 4	17.30 m ²	Room 8	13.90m ²
Corridor	12.10	Veranda	13.5 m ²



Kitchens

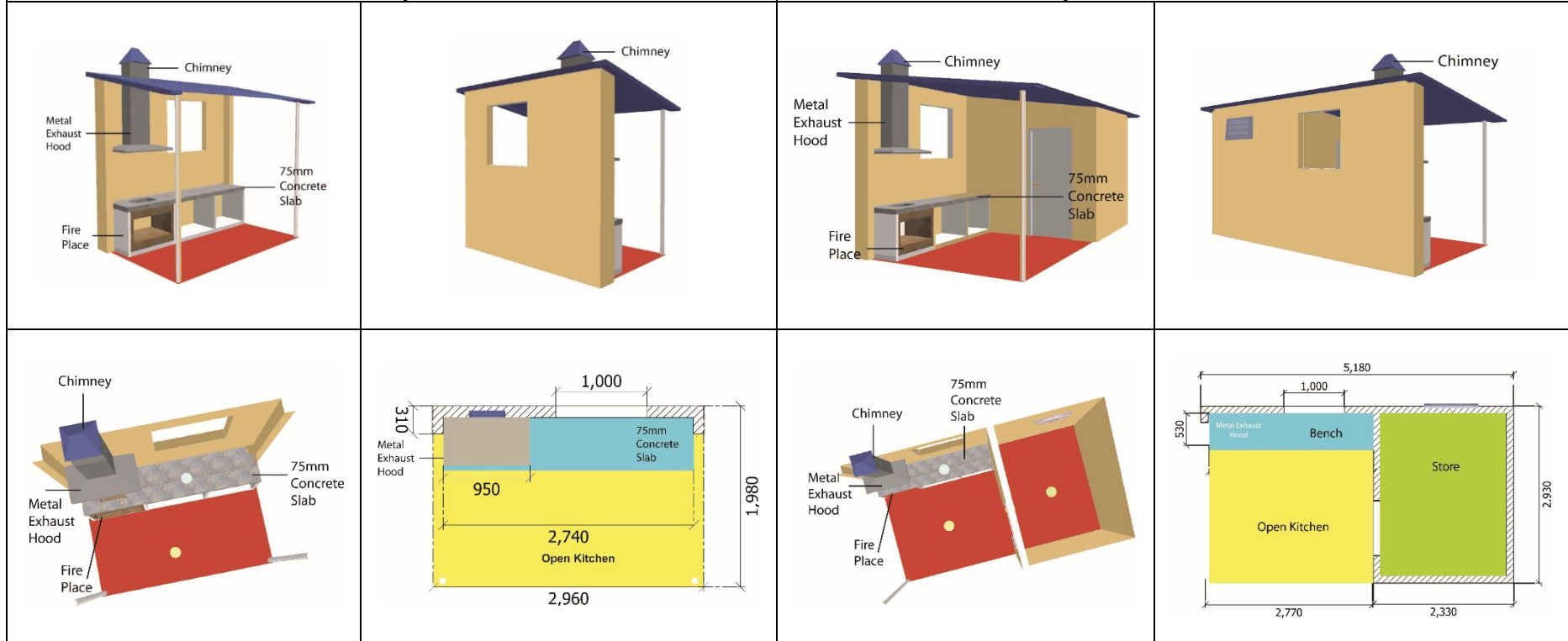
Description: Type A and Type B kitchens are covered open structures with a raised cooking platform and fireplace with a metal flue. Type B has an additional connecting store. Both kitchens have mono-pitched roof structures covered with corrugated iron sheets.

Kitchen Eligibility – For improvement of living conditions for each replacement house, a PAP will be provided with a covered kitchen shelter and a standard single ventilated improved pit (VIP) latrine. Where a PAP is eligible for more than one (1) replacement house, they can elect for either:

- a standard single VIP latrine (with privacy wall at entrance) and a covered kitchen shelter per replacement house structure; or
- one (1) VIP latrine combined with an ablation (shower) structure, and a covered kitchen shelter plus store per homestead.

Kitchen A – Open Kitchen

Kitchen B – Open Kitchen with Enclosed Store



Latrines

Description: Both VIP latrines have a mono-pitched roof, non-slip ceramic matt tiles with a high wall skirting. The walls will be painted in a high gloss enamel finish, hardwood varnished doors, white glazed squatting type pan. Type B will also have a connecting washing space with door.

Latrine Eligibility - For improvement of living conditions for each replacement house, a PAP will be provided with a covered kitchen shelter and a standard single ventilated improved pit (VIP) latrine. Where a PAP is eligible for more than one (1) replacement house, they can elect for either:

- a standard single VIP latrine (with privacy wall at entrance) and a covered kitchen shelter per replacement house structure; or
- one (1) VIP latrine combined with an ablation (shower) structure, and a covered kitchen shelter plus store per homestead.

Latrine A – Single Covered VIP

Latrine B – Two Room Covered VIP

