





FEASIBILITY STUDY, PREPARATION OF PRELIMINARY DESIGNS, DETAILED DESIGNS, SAFEGUARDS DOCUMENTS AND TENDER DOCUMENTS AND CONSTRUCTION SUPERVISION OF SECOND BARICHO – KAKUYUNI WATER PIPELINE AND TRANSMISSION PIPELINES TO KILIFI AND GANDA TANKS

> CONTRACT No.: KE-CWSB-102977-CS-QCBS SOCIAL SCREENING REPORT FOR THE PROPOSED LOT 1 – SECOND BARICHO\_KAKUYUNI RISING MAIN



Prepared By;



# October 2021

# ABBREVIATION

C- ESMMP	Construction Environmental and Social Management and Monitoring Plan
CSR	Cooperate Social Responsibility
CWWDA	Coast Water Works Development Agency
EMCA	Environmental Management and Coordination Act
ESMMP	Environmental and Social Management & Monitoring Plan
ESMMP	Environmental and Social Management and Monitoring Plan
IDP	Internally Displaced Persons
KIMAWASCO	Kilifi-Mariakani Water and Sewerage Company
MAWASCO	Malindi Water and Sewerage Company
NEMA	National Environment Management Authority
NLP	National Land Policy
OP	Operational Policy
RAP	Resettlement Action Plan
WSDP	Water and Sanitation Development Project







# TABLE CONTENTS

ABBR	EVIATIONII
LIST O	PF TABLESIV
LIST O	PF FIGURESIV
	F APPENDICESIV
CHAP'	TER 1 : INTRODUCTION 1 -
1.1	Project Background1 -
1.2	Project Location 2 -
1.3	Project Beneficiaries 3 -
1.4	Objective of the social Screening Report 4 -
1.5	Methodology for carrying out RAP Screening 4 -
CHAP <sup>®</sup>	TER 2 : PROJECT DESCRIPTION 5 -
2.1	Existing Baricho Water Works 5 -
2.2	Existing Water Supply to Mombasa, Kilifi and Malindi Water Companies 5 -
2.3	Proposed system7 -
2.3.1	Overview7-
2.3.2	Rising main from Baricho water works to Kakuyuni reservoir
2.3.3	Kakuyuni Reservoir 8 -
2.3.4	Electromechanical works 8 -
CHAP	TER 3 .PUBLIC PARTICIPATION & STAKEHOLDER CONSULTATION
CHAP <sup>®</sup>	TER 4 : .IMPACTS OF THE PROJECT 13 -
4.1	Positive Impacts 13 -
4.2	Negative Impacts 14 -
4.3	Land Take 14 -
4.4	Loss of livelihood 14 -
4.5	Impact on trees and crops 14 -
4.6	Impact on structures 14 -
4.7	Impacts on Public Health 14 -
CHAP	TER 5 : CONCLUSION AND RECOMMENDATION 16 -
5.1 Cc	nclusion 16 -
5.2	Recommendation 16 -
APPE	NDICES







#### LIST OF TABLES

Table 2-1: Inventory of key energy consuming equipment at Baricho Water Works ...... - 10 -

#### **LIST OF FIGURES**

#### LIST OF APPENDICES

Appendix 1: Project Layout	17 -
Appendix 2: Minutes and Attendance Sheet	18 -







#### **CHAPTER 1 : INTRODUCTION**

#### 1.1 Project Background

Coast Water Works Development Agency (CWWDA) under the Water and Sanitation Development Project (WSDP) financed by the Government of Kenya and the World Bank intends to implement the proposed water supply project under LOT 1. The LOT 1 works involves transmission pipeline from Baricho pumping station to a proposed reinforced concrete reservoir at Kakuyuni (herein referred to as "The Project").

The Project is located within Kilifi County. It aims at improving water supply to Malindi, Watamu, Kilifi and Gongoni towns and their surrounding environs including the communities living along the pipeline route within Lango Baya, Kakoneni, Jilore and Kakuyuni centres. The target areas fall within the jurisdiction of two water services providers; namely, Kilifi-Mariakani Water and Sewerage Company (**KIMAWASCO**) and Malindi Water and Sewerage Company (**MAWASCO**). The project will provide a new additional pipeline from Baricho to Kakuyuni, associated electromechanical works and new reservoir at Kakuyuni (Lot I), transmission mains from Kakuyuni reservoir to Ganda tanks (Lot 2) and transmission mains from Kakuyuni reservoir to Kilifi tanks (Lot 3).

The water source, Baricho Well field, has in the recent past undergone significant expansion and rehabilitation works which has increased its capacity by 22,000 m<sup>3</sup>/day to a total production of 112,000 m<sup>3</sup>/day. Out of the total production, 60,000 m<sup>3</sup>/day will be conveyed to Mombasa City through the Mombasa pipeline and the remaining 52,000 m<sup>3</sup>/day to Malindi, Watamu, Kilifi and Gongoni towns.

The design capacity of the existing Baricho-Kakuyuni line is 30,000 m<sup>3</sup>/day, which is inadequate to deliver the additional amount of water produced. In addition, the capacity of the transmission pipelines from Kakuyuni to Kilifi and Ganda are inadequate and need to be augmented. Consequently, additional parallel pipelines transmission capacity from Kakuyuni to Kilifi and Ganda are required to meet the projected water demands. This report is an Environmental and Social Impact Assessment (ESIA) Comprehensive Project Report (CPR) for the proposed Transmission Pipeline from Baricho to Kakuyuni Tanks (Lot I).

In order to ensure that the project does not negatively impact the physical, biological, chemical and social environment, CWWDA appointed SARI/SGAPI/GATH JV to undertake an Environmental and Social screening report for the project.









This screening report has been prepared in line with the World Bank OPs

#### **1.2 Project Location**

The Second Baricho – Kakuyuni Water Pipeline Project, is located in Kilifi County and targets Malindi and Kilifi Sub Counties. Kilifi is one of the six counties in the Coastal region of Kenya and lies between latitude 2°20° and 4°0° South, and between longitude 39° 05° and 40° 14° East and covers a total surface area of 12,610 km<sup>2</sup>. It borders the Counties of Tana River to the North, Taita Taveta to the West, Mombasa and Kwale to the South, Lamu County to the North East and the Indian Ocean to the East.

Kilifi County has seven sub counties, namely; Kilifi North, Kilifi South, Ganze, Malindi, Magarini, Rabai and Kaloleni. It has 17 divisions, 54 locations, 175 sub-locations. Magarini Sub-county is the largest while Rabai is the smallest (figure 1-1 below)

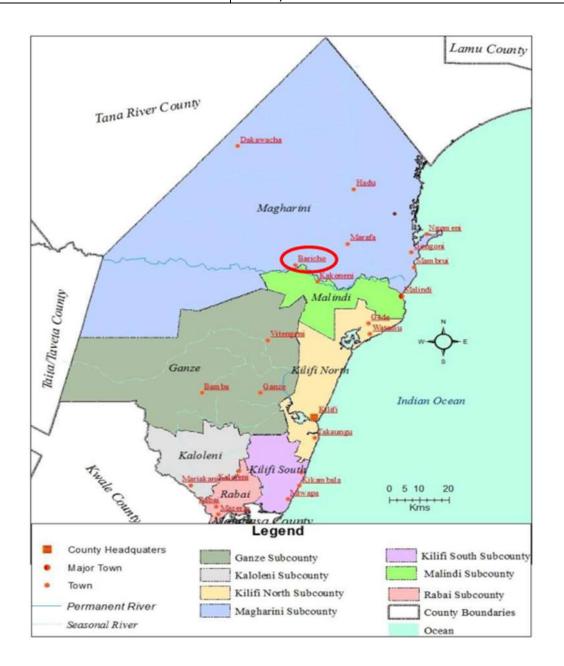
The proposed pipeline will be laid from Baricho wellfield, then along the existing CWWDA wayleave and finally on the C103 (Malindi – Ganda – Kakuyuni Salgate Road) road reserve up to Kakuyuni road reserve. Installation of additional electromechanical works will be carried out at the existing Baricho pumping station, while the construction of a new water reservoir will be done next to the existing water tank at Kakuyuni Boys Secondary School which is a public school.

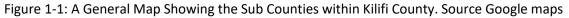
The sites (CWWDA existing wayleave, C103 road reserve and the site for reinforced concrete reservoir at Kakuyuni High school) ownership for the proposed pipelines and reservoir was verified during consultation and is free from encroachment and therefore no displacement impacts will be triggered as described by World Bank OP 4.12 on Land Acquisition and Involuntary Resettlement.











#### **1.3 Project Beneficiaries**

Supply of water in Malindi, Watamu, Kilifi, Gongoni towns and their surrounding environs is rationed. The proposed project will augment water supply to the towns and communities along the Pipeline route within Lango Baya, Kakoneni, Jilore and Kakuyuni centers so as to meet the projected water demands in the Water Distribution Master Plan.





aath

- 3 -

Construction of a new reinforced concrete reservoir at Kakuyuni Boys Secondary school will also be a milestone towards stabilizing water supply to the targeted towns and villages.

#### 1.4 Objective of the social Screening Report

The main objective of this screening process is to identify and highlight the socio economic and/ or physical displacement that need to be taken into account in the planning, design, installation of additional Electromechanical works at the Baricho water works, laying of a water pipeline rising main from Baricho water works to the proposed Kakuyuni 5,000m<sup>3</sup> reservoir, construction of a new water reservoir of capacity 5,000m<sup>3</sup> at Kakuyuni and rehabilitation of existing system – replacement of non-functional air valves and associated fittings for the proposed water supply project under Lot 1 of second Baricho Kakuyuni pipeline.

This screening will assist in determining if this sub-project requires a Resettlement Action Plan done before its implementation. The aim is to support the sustainable implementation of the proposed works in the project. The screening was carried out at an early stage of the project (i.e. Pre - Feasibility), in accordance with the requirement for World Bank financed projects.

#### 1.5 Methodology for carrying out the Screening

Social screening is the first step in the RAP process. It is carried out to establish the resettlement issues that may arise from the proposed project. The screening involved a desktop review of the project features, the baseline conditions and the design components.

Secondly, the Consultant carried out a site visit to the project area in order to conduct a transect walk through the pipeline routes, tank and water kiosk sites in order to establish the need or lack thereof of a RAP.

The findings of these activities are presented in this report.







# **CHAPTER 2 : PROJECT DESCRIPTION**

#### 2.1 Existing Baricho Water Works

Baricho aquifer is located in Kilifi County and 60km west of Malindi town and currently has an installed capacity of 112,000m<sup>3</sup>/day following a recent rehabilitation works that increased the production by 22,000m<sup>3</sup>/day. The water is abstracted from the Sabaki Aquifer (on the banks of the river) which is recharged by Sabaki River. There are eleven (11) wells each with capacity of 470 m<sup>3</sup>/hr grouped into two (2) wellfields with the downstream group consisting of eight (8) wells and the upstream group consisting of three (3) wells. From the wells water is pumped using submersible Low Lift Pumps (LLPs) to a contact tank (capacity of 5,000 m<sup>3</sup>) for chlorination as well as a sump for the High Lift Pumps (HLPs) which deliver the water to Mombasa, Malindi and Kilifi towns. It is noted that according to the Water Master Plan for Water Supply for the Coast Region (Tahal/Bhundia, 2014), the Baricho well field was found to have a potential capacity of 180,000 m<sup>3</sup>/day upon full development by the year 2040.

#### 2.2 Existing Water Supply to Mombasa, Kilifi and Malindi Water Companies

The treated water from Baricho plant is evacuated through two (2) pipelines namely: -

- The Sabaki/Mombasa Pipeline (sometimes referred to Baricho/Mombasa Pipeline)
- The Baricho/Kakuyuni Pipeline (sometimes referred to Baricho/Malindi Pipeline)

There are five (5) operational High Lift Pumps (HLP) dedicated to supply Mombasa from the Baricho pump house with three (3) as duty pumps and two (2) as standby pumps. The water is delivered via the Nguu Tatu storage tanks (1No. 18,000 m<sup>3</sup> and 2No. 4,500 m<sup>3</sup> tanks – totaling to 22,500m<sup>3</sup>) using a DN800/600mm diameter, 104 km pipeline (with a capacity of 60,000 m<sup>3</sup>/day). There is also a booster pumping station located at Lower Ribe that supplies water to the Kaloleni area.









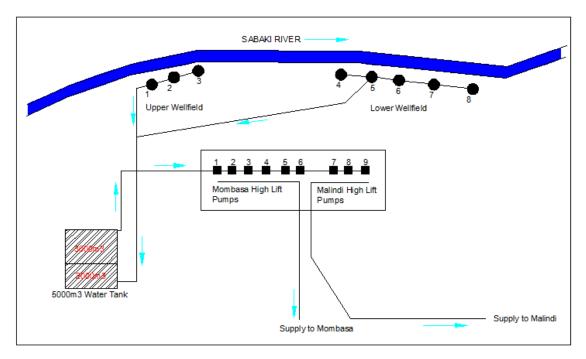


Figure 2-1: Existing water network from Baricho water works

A new pipeline (500 mm diameter, 56 km long, DI) connecting the Kakuyuni terminal reservoir and the Kilifi tank (in Kilifi town) was recently completed in 2019 under Water and Sanitation Services Improvement Program - Additional Financing (WaSSIP-AF). Also constructed under the same project were three new boreholes (9, 10, 11 – see figure below). The pipelines and the boreholes are currently operational.

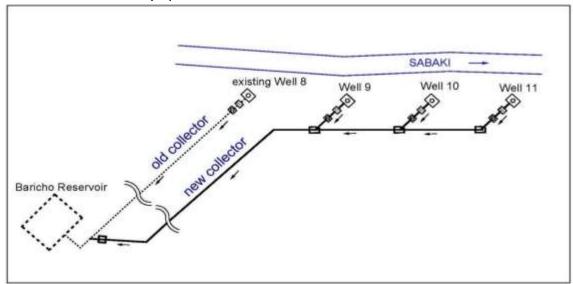


Figure 2-2: Schematic of the recently concluded works



The towns of Malindi, Watamu, Kilifi, Gongoni and the environs receive water supply from Baricho Source Works through the Sabaki-Malindi transmission main. Water is pumped from Baricho to the existing Kakuyuni tank (1,250m<sup>3</sup>) through a 29km, DN 600 rising main (with a carrying capacity of 25,000 m<sup>3</sup>/day). Water flows from the reservoir by gravity to Ganda junction then branches to Ganda and Kisimani reservoirs from where it flows to the supply areas. There are four (4) transmission pipelines from Kakuyuni reservoir namely: -

- Kakuyuni/Ganda pipeline, 12.3km long, diameters ranging 600-500-450-300mm,
- Kakuyuni/Kilifi pipeline, 56km long, diameter of 500mm,
- Kakuyuni/Gongoni pipeline, 37km long, diameter of 400mm,
- Kakuyuni/Watamu pipelines, 17km long and with diameters of (350mm and 200mm).

# 2.3 Proposed system

# 2.3.1 Overview

The proposed project will augment water supply to the towns of Malindi, Watamu, Kilifi and Gongoni and the surrounding environs so as to meet the projected water demands in the Water Distribution Master Plan. This will be achieved through;

- Installation of additional Electromechanical works at the Baricho water works installation
  of additional new pumps, surge vessels and associated electrical works;
- Laying of a water pipeline rising main from Baricho water works to Kakuyuni reservoir. The pipeline will be of diameter DN 800mm, steel pipeline, 29km and will be laid mainly along the road reserve of C-103 (Malindi Ganda Kakuyuni Salgate);
- Construction of a new water reservoir of capacity 5,000 m<sup>3</sup> at Kakuyuni. The reservoir will be sited next to the existing water tank and the proposed site belong to Kakuyuni High school
- Rehabilitation of existing system replacement of non-functional air valves and associated fittings along the existing DN 600mm Baricho-Kakuyuni pipeline.

# 2.3.2 Rising main from Baricho water works to Kakuyuni reservoir

The proposed Second Baricho – Kakuyuni pipeline (29km, DN 800mm) will be a rising main from the Baricho water works to the proposed new Kakuyuni reservoir. There is sufficient space parallel to the existing pipeline where this new pipeline can be laid along the existing CWWDA wayleave and then onto C 103 KeRRA road (Malindi-Ganda-Kakuyuni-Salgate Road). There is no physical or economic displacement anticipated as currently the way leave is free from any form of encroachment. The google overlay below shows the proposed pipeline route, the pipeline route will be along the existing CWWDA wayleave (circled in blue) before joining the C103 KeRRA road reserve upto Kakuyuni.







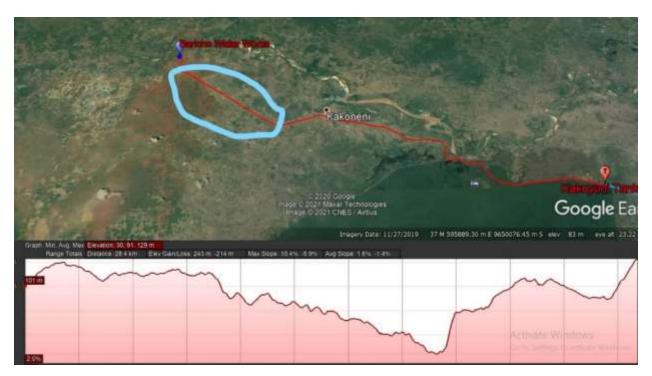


Figure 3: The figure showing the proposed pipeline route from the water works to the proposed Kakuyuni reservoir.

#### 2.3.3 Kakuyuni Reservoir

A new Kakuyuni reinforced concrete reservoir with a capacity of 5,000m<sup>3</sup> is proposed to boost the existing tanks and this will require at least 1.5 acres of land. Other supporting infrastructure to be constructed at Kakuyuni will include the following;

- Access road & parking space;
- Site accommodation for the operator
- Fencing and adequate lighting and
- Drainage.

There is no physical or economic displacement anticipated as currently the proposed site which is part of the public school land is covered with a few scattered shrubs and grass.

#### 2.3.4 Electromechanical works

#### a) Pumps

There are two sets of high lift pumps in the pump house, the Mombasa high lift pumps and Malindi high lift pumps. The Mombasa high lift pumps are 5 No. and pump the treated water, directly from the delivery pipe, to Nguu Tatu reservoirs (22,500 m<sup>3</sup>), on the outskirts of Mombasa









town, for the Mombasa pipeline whereas the Malindi high lift pumps are 3 No and pump the treated water, from a 3,000m<sup>3</sup> sump tank, to Kakuyuni reservoirs for the Malindi pipeline. The Nguu Tatu and Kakuyuni reservoirs are on their respective high points and supply water to the consumers by gravity. The Mombasa high lift pumps are operated using auto transformer starters and the Malindi high lift pumps are operated using star delta starters.

Additional pumps are set to be installed to feed the new proposed rising main. The proposed pumping arrangement will include 3 No. high lift pumps (two (2) duty and one (1) standby). The pumps will be sited within the existing pump house and will draw water from the 3,000 m<sup>3</sup> sump tank.

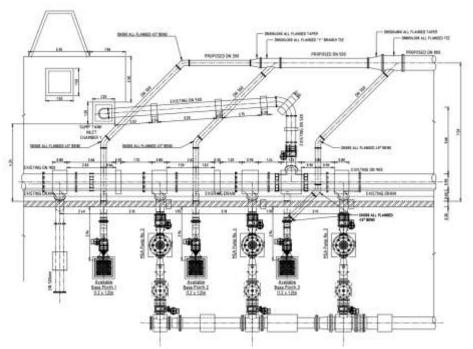


Figure 2-4: The proposed arrangement of the additional pumps

# b) Power source, distribution and consumption

The Baricho water works power supply is from the utility Kenya power using 2 No. 33 KV overhead H.T lines, one from the Kilifi 132/33 KV substation and one from the Kakuyuni 220/33 KV substation. The one from Kilifi substation proved unreliable and thus the water works was connected to the new line from the Kakuyuni sub station and metered on the CI3 tariff.



**RAP Screening Report** 







Figure 2-5: Baricho Water Works 33KV overhead H.T lines and substation

The key electrical loads at Baricho Water Works are high lift pumps, low lift borehole pumps, office block and staff quarters. The other loads are compressors, lighting and power loads for the other auxiliary buildings which are switch rooms and pump rooms.

Summary of the key energy consuming equipment is as tabulated below:

Item	Description	Quantity(No of
		pumps)
1.	Mombasa High Lift Pump pumping capacity of 833m <sup>3</sup> /hr. and a	5
	840KW/3.3KV motor	
2.	Malindi High Lift Pump pumping capacity of 583m <sup>3</sup> /hr. and a	3
	250KW/415V motor	
3.	Low Lift Borehole pumps	
	a) Bore hole pump pumping capacity of 470m <sup>3</sup> /hr. and a	3
	135KW/415V motor (boreholes 2, 6A & 8)	
	b) Bore hole pump pumping capacity of 470 m <sup>3</sup> /hr. and a 160	2
	KW/415V motor (boreholes 1 & 3)	
	c) Bore hole pump pumping capacity of 470 m <sup>3</sup> /hr. and a 180	3
	KW/415 V motor (boreholes 4, 5 &7)	
	d) Bore hole pump pumping capacity of 350 m <sup>3</sup> /hr., each rated 110	3
	kW (boreholes 9, 10 & 11)	

Table 2-1: Inventory of key energy consuming equipment at Baricho Water Works







Item	Description	Quantity(No of pumps)
4.	Surge Vessel Compressor Set for Mombasa line with a capacity of 30 bar and rated at 13.5 kW	1
5.	Surge Vessel Compressor Set for Malindi line with a capacity of 1.05 bar and rated at 6.89 kW	1
6.	Street lighting	
	<ul> <li>a) 8 M galvanized single arm lighting pole with 125 W Mercury</li> <li>Vapour lamp</li> </ul>	40
	<ul> <li>b) 6 M galvanized single arm lighting pole with 125 W Mercury</li> <li>Vapour lamp</li> </ul>	22
7.	Office Block	1
8.	Staff Quarters	97

#### (i.) Proposed Electrical Works

- The pumping arrangement will utilize 3 pumps (2 duty and 1 standby). With the 2 No. online pumps this presents an electrical load of 630 kW on the low voltage lines.
- A transformer rated at 2000 KVA is to be installed rated at 33KV/433V to replace TX 4 at the 33 KV switchyard and to supply power to a low voltage panel through an Automatic Voltage Regulator rated at 2000 KVA. The AVR is to regulate the voltage on low voltage panel as the pumping station has been experiencing low voltage which has been damaging equipment.
- A low voltage panel rated at 2000 Amperes is to be established to supply power to the 3 No. pumps. It is intended that the pump motors will be of Variable Frequency Drive (VFD).
   Space for mounting the low voltage panel will be located in the main pump hall. Further KPLC Ltd is to be contacted for the extra electrical load imposed on their power lines
- A SCADA system to monitor pumping and all electrical parameters is to be incorporated in the electrical control system for the pumping system whereby control functions can be carried out remotely.
- The client is planning to install solar firm in future to cut on the energy cost









### **CHAPTER 3 . PUBLIC PARTICIPATION & STAKEHOLDER CONSULTATION**

As part of the screening process, the Consultant carried out community consultation forums. The Consultant conducted three meetings, one on May 6, 2021 at Lango Baya sub location and Jilore location and the other two on May 7,2021 at Kakuyuni sub location and Ganda sub location. The attendees of all meetings comprised of community leaders (the area Chiefs) other local leaders (Balozis) and community members from all local villages.

The Lango Baya meeting comprised of 25 attendees. During the meeting, it was established that the proposed project would use the existing road reserve and the CWWDA acquired way leave for pipe laying hence no individual would be displaced or resettled during project implementation phase. Consultation with KeRRA indicated that the necessary permits be obtained before commencement of construction works along the reserves. The community fully agreed to provide assistance where necessary during implementation.

The Jilore meeting was conducted within the Chief's camp and had 23 people in attendance. The community leaders raised concern over the adequacy of the water to the individual villages, now that the water source (Baricho Wellfields) was a few kilometers away from their households. The residents requested for water provision and provision of a reservoir tank that would fully be serving them.

The Kakuyuni meeting had 22 persons in attendance. Their major concern was the Kakuyuni Boys Secondary School's land that had been selected as the area where the storage tank will be built. They informed the meeting that the school management board and the CWWDA were concluding on negotiation for CWWDA to construct a dormitory for the student as part of the Corporate Social responsibility.

Minutes of the meetings are provided in appendix 2 of this report.









#### **CHAPTER 4 :. IMPACTS OF THE PROJECT**

This section outlines the potential impacts that are anticipated and will be associated with the proposed project activities. The impacts will be related to activities carried out during construction, commissioning, operations, maintenance and decommissioning phases.

#### 4.1 Positive Impacts

- Employment opportunities: With the construction of the proposed project, there will be employment opportunities for both professionals and unskilled workers; earnings from the wages will improve their living standards.
- Creation of a market for construction materials The project will require materials, some of which will be sourced locally and some internationally.
- Economic growth Through the use of locally available materials
- Injection of money into the local economy: A large sum of the project money shall be released into the local economy due to the construction activities
- Creation of wealth- The proposed project will ultimately provide revenues to the beneficiaries and expand the wealth base for the nation as a whole. Further, the value of land within the project area will rise thus improving on the existing wealth for the residents.
- Improved well-being of women and children: Water accessibility at homesteads would translate to time saving by the women. Time saved thus would be invested in other engagements that could bring financial benefits to the family. Children also bear the brunt of water borne diseases while women are tied down to provide nursing care to the sick family members
- Improved accessibility to clean and reliable water supply-The proposed water supply project Towns of Malindi, Kilifi, Watamu and Gongoni and their surrounding environ including communities along the pipeline route of Lango Baya, Kakoneni, Jilore and Kakuyuni centers. This will reduce the water shortage experienced in the area.
- Improved revenue to both Malindi and Kilifi-Mariakani Water and Sewerage Companies from increased customer base as the proposed project will increase the number of residents being served by the water companies. It will also make the supply reliable thus increasing the revenue base. Further, this will improve sustainability of the companies







#### **4.2 Negative Impacts**

#### 4.3 Land Take

The new project interventions project will be implemented on road reserves, CWWDA way leave and at Baricho Boys Secondary School which is publicly owned hence no land will be acquired for the proposed project activities. In addition, there are no encroachers on the proposed new project sites and existing sites where rehabilitation will be undertaken.

#### 4.4 Loss of livelihood

With the provision of safe adequate and reliable water there is envisaged to be minimal negative impact on livelihood of some household this is due to the fact that some residents rely on water provision from water vendors. It will be prudent for the contractor to engage the vendors in available employment opportunities. The vendors should also be sensitized on available ways /means of earning income

#### 4.5 Impact on trees and crops

During the screening it was observed that there will be loss of shrubs and grass (pipeline route and tank site) at the site during clearing. No loss of trees and crops is anticipated. The contractor will avoid cutting trees as much as possible and replant grass in the affected areas after completion of works on site with vegetation

#### 4.6 Impact on structures

No negative impact will be expected during construction as no structures are located within project site land as confirmed during the social screening.

#### 4.7 Impacts on Public Health

Some of the public health issues related to construction works are Covid 19, HIV/AIDS and other communicable and sexually transmitted diseases (STDs). It has been observed that construction works and projects increase disease prevalence through sexual interactions between project staff and local communities. However, camps will be put up that might attract this behavior. The contractor will, as part of each worker's initial orientation and on-going education, provide public education information about Covid 19, HIV/AIDS and prevention measures. Condoms, hand washing water and soap will be made available to project workers at no cost. This impact is however considered minimal











RAP Screening Report	Proposed Water Supply Project LOT 1 - Transmission Pipeline from Baricho
KAF Screening Report	to Kakuvuni Reservoir



Proposed tank site with a few shrubs Figure 4-1: Sample photos of the proposed site



Pipeline route free from encroachment







#### **CHAPTER 5 : CONCLUSION AND RECOMMENDATION**

#### 5.1 Conclusion

Based on the social screening results, the project has no Project Affected Persons as tank site is publicly owned, the Client will consider construction of a dormitory for the school as a part of corporate social responsibility. This means therefore that

- 1. In accordance to World Bank OP 4.12 on Land Acquisition and Involuntary Resettlement and the Kenyan Laws, no PAPs were identified by the project.
- 2. There will therefore be **no need of carrying out** a RAP since the project will not be associated with any form of physical and /or economic displacement.

#### 5.2 Recommendation

It is recommended that:

- There is no economic or physical displacement anticipated, however, the Contractor will mitigate any anticipated impacts as guided by the Environmental and Social Management Plan provided in the ESIA report in order to ensure protection of social welfare of the members of the community and the environment.
- The client will consider provision of additional water kiosk and installation of water storage tank in each village as requested by the community members during consultations in the project area.



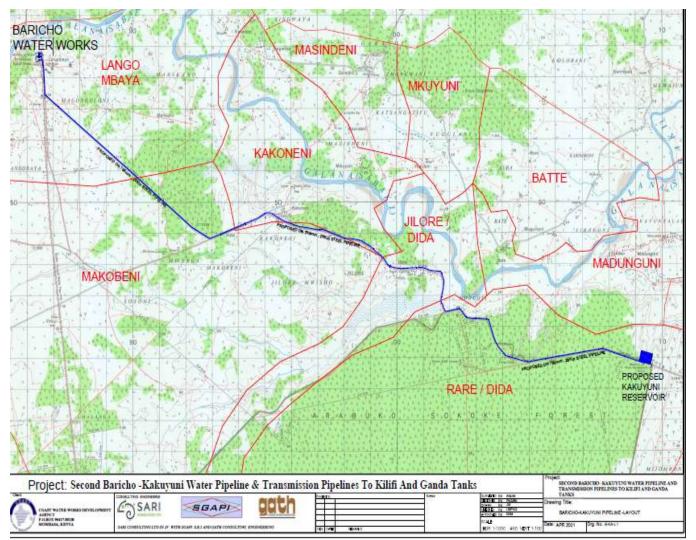






#### APPENDICES

Appendix 1: Project Layout





in Joint Venture with



and



#### Appendix 2: Minutes and Attendance Sheet







CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF PRELIMINARY DESIGNS, DETAILED DESIGNS, SAFEGUARDS DOCUMENTS AND TENDER DOCUMENTS AND CONSTRUCTION SUPERVISION OF SECOND BARICHO – KAKUYUNI WATER PIPELINE AND TRANSMISSION PIPELINES TO KILIFI AND GANDA TANKS

# MINUTES FOR PUBLIC CONSULTATION MEETINGS AND KEY STAKEHOLDERS INTERVIEWS HELD ON 6<sup>TH</sup> MAY 2021 AT LANGO BAYA

NATURE OF MEETING:	PUBLIC CONSULTATION
PARTIES IN ATTENDANCE:	CONSULTANT & COMMUNITY
DATE:	MAY 6 <sup>TH</sup> , 2021
VENUE:	LANGO BAYA









# MINUTES FOR PUBLIC CONSULTATION MEETINGS AND KEY STAKEHOLDERS INTERVIEWS HELD ON 6<sup>TH</sup> MAY 2021 AT LANGO BAYA

#### **MEMBERS PRESENT- LIST OF ATTENDANCE IS ATTACHED**

No.	Name	Organisation	Designation
1.	Boniface Kogi	SGAPI SARI GATH	A.E
2	Lydia Mbogo	SGAPI SARI GATH	E.O
3	Joseph Mulusya	SGAPI SARI GATH.	Surveyor
4	Mercy Makadu	SGAPI SARI GATH	Sociologist
5	Fredrick Charo		Assistant Chief
6	Rehema Said		Resident
7	Onesmus Masha		Resident
8	Mwanakombo Bambulo		Resident
9	Samuel Wanje		Resident
10	Jesca Dama		Resident
11	Kahonzi Baya		Resident
12	Nelson Mbogo		Resident
13	Mwalimu Kahindi		Resident
14	William Baya		Resident
15	Christine Chengo		Resident
16	Florence Charo		Resident
17	Irene Kitsao		Resident
18	Franklin Kaingu		Resident
19	Jonathan Mwagandi		Resident
20	Margaret Kamande		Resident
21	Hannington Mulikya		Resident
22	Geoffrey Muriithi		Resident
23	Wilson Sulubu		Resident
24	Harrison Kadenge		Resident
25	David Gunga		Resident

#### **ABBREVIATIONS**

AE	Assistant Engineer
EO	Environmental officer
AOB	Any Other Business
Consultant	SARI GATH SGAPI

<u>AGENDA</u>





and





- 19 -

- 1. Introduction
- 2. Reason for stakeholder Consultation
- 3. Current Water Sources and Challenges
- 4. Interventions to address the Challenges
- 5. Potential project Impacts (Positive and Negative)
- 6. Comments and Responses
- 7. A.O.B
- 8. Adjournment









MINUTE	E DESCRIPTION	
NO:		
Mtg.1-01	INTRODUCTION	
	The Assistant Chief called the meeting to order at 1000 HRS. The meeting	
	began with a word of prayer that was led by one of the residents. This	All
	was followed by brief self-introduction by all residents.	
	The chief then invited the consultants (Assistant Engineer,	
	Environmental Officer and Surveyor) who introduced themselves then	
	stated the agenda of the meeting that was adopted.	
Mtg.1-02	REASON FOR STAKEHOLDER CONSULTATION	
	The Assistant Engineer gave a brief introduction of the Project scope.	
	Then later welcomed the Environmental officer who briefed the	
	participants on the reasons for holding a public meeting for the project.	Consultant
	The participants were informed that this was to give them a chance to	
	air their views about the proposed project, create awareness, request	
	for their support, as well as adherences to legal requirement that	
	requires the proponent to inform the area resident about their intention	
	to implement a project in their area before commencement. Further to	
	give them a chance to air their views, assist in anticipating impacts and	
	recommending mitigations measures and create awareness of the	
	proposed intervention	
Mtg.1-03	CURRENT WATER SOURCES AND CHALLENGES	Consultant
	The stakeholders commented on the fact that water has been a major	
	challenge due to its frequent shortages, high prices and occasional	
	broken pipes despite the fact that they lived near the water source.	
Mtg.1-04	INTERVENTIONS TO ADDRESS THE CHALLENGE	
	The Assistant Engineer mentioned the project implementation timelines	
	and stated that the project would tentatively begin around October 2021	
	and take about a year to complete. He further stated that the pipes of	Consultant
	DN 800mm for 29 km, there would also be a 5,000m <sup>3</sup> reinforced concrete	
	tank.	
Mtg.1-05	POTENTIAL PROJECT IMPACTS (POSITIVE and NEGATIVE)	
	Positive project impact	
	Accessibility to clean and reliable water, hygiene and sanitation,	
	reduced water and Improved sanitation burden to women,	Consultant
	increased land values in the project area.	
	Negative project impact	
	<ul> <li>Impacts on biophysical environment (Vegetation destruction,</li> </ul>	
	soils, water resources pollution or over abstraction)	









	<ul> <li>Social Environment (labor influx, child labor, gender inclusivity, human rights, teenage pregnancies, school dropouts, HIV and AIDS, resettlement issues.)</li> <li>Health and Safety Impacts (Noise and vibrations, air pollution, accidents on site, fire disasters, public health)</li> </ul>	Consultant
Mtg.1-07	COMMENTS AND RESPONSESComment – WayleaveThe residents requested know if the project will affect them in terms of displacement in anyway.Response	Resident
	The consultant informed the meeting that there will be no Demolitions or Displacements that were anticipated since the pipelines had been designed to follow the way leaves and this was confirmed during the surveys that were conducted - no one would be displaced and no private property would be interfered with.	Consultant
	Comment – Job Requirements The residents wanted to know if they will have to produce NHIF, NSSF and Certificate of Good conduct before they can be recruited. Response	Resident
	They were informed that those requirements are not only mandatory but also a basic requirement of the law of Kenya, however, for casual labourers an Identification Card is mandatory. Comment – Backfilling request	Consultant
	The residents wanted to know how prompt the backfilling will be once excavation has been done.	Resident
	Response The consultant informed the meeting that No access points will be left open without provision of access points or being backfilled for more than a day.	Consultant
	<ul> <li>Comment – Compensation</li> <li>The community wanted to know if there will be any land and way leaves compensation.</li> <li>Response</li> </ul>	Resident
	For the pipeline route, it was noted that it will use the existing road reserve. The new proposed tank will be constructed at Kakuyuni Boys Secondary School and the client had were in negotiation to come up with	Consultant
	a mutual agreement. In additional relevant permit from road authorities will be obtained before commencement of works along the reserves and	Resident







	there were no private properties, trees or crops that would be interfered	Consultant
	with hence no one would require compensation	
	Comment – Reinstatement	Resident
	The residents wanted to know if reinstatement of pipes that will be	
	damaged during excavation will be considered	
	Response	
	The consultant informed the meeting that all reinstatements will be	Consultant
	adequately handled by the contractor.	
Mtg.1-08	A.O.B	
	The Chief requested for cooperation from the community for smooth	Chief
	running of the project.	
Mtg. 1-09	Adjournment	All
	The meeting was closed with a word of prayer from a resident at 1300	
	HRS.	







MINUTES SIGNED AND AGREED UPON BY:

For and on behalf of Client (CWWDA)

mont SIGN

DATE 4-06-2021

ASST. CHIER For and on behalf of Local Administration (Assistant Chief) SIGN HOMBE DATE 04/06/2021 LANGOBAYA SUB-LOCATION

For and on behalf of Consultant (SARI GATH SGAPI)

sign Motor Date 4/6/2021 By Lydich Mbago Date 4/6/2021

7|Page





and





- 24 -







# CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF PRELIMINARY DESIGNS, DETAILED DESIGNS, SAFEGUARDS DOCUMENTS AND TENDER DOCUMENTS AND CONSTRUCTION SUPERVISION OF SECOND BARICHO – KAKUYUNI WATER PIPELINE AND TRANSMISSION PIPELINES TO KILIFI AND GANDA TANKS

# MINUTES FOR PUBLIC CONSULTATION MEETINGS AND KEY STAKEHOLDERS INTERVIEWS HELD ON $7^{TH}$ MAY 2021 AT KAKUYUNI

NATURE OF MEETING:	PUBLIC CONSULTATION
PARTIES IN ATTENDANCE:	CONSULTANT & COMMUNITY
DATE:	MAY 7 <sup>TH</sup> , 2021
VENUE:	KAKUYUNI









# MINUTES FOR PUBLIC CONSULTATION MEETINGS AND KEY STAKEHOLDERS INTERVIEWS HELD ON 7<sup>TH</sup> MAY 2021 AT KAKUYUNI

#### **MEMBERS PRESENT- LIST OF ATTENDANCE IS ATTACHED**

No.	Name	Organization	Designation
1.	Boniface Kogi	SGAPI SARI GATH	A.E
2	Lydia Mbogo	SGAPI SARI GATH	E.O
3	Joseph Mulusya	SGAPI SARI GATH.	Surveyor
4	Alphonce Kitsao Jefwa	Administration	Assistant chief
5	Farida Garama		Assistant Chief
6	Bendera Thoya		Village Elder
7	Naphtal Birya	Interior	
8	Samsom Kamunga		MCA
9	Nixon Mramba		
10	Samuel Jefwa		
11	Kithi Robert		
12	Benjamin Karisa		Resident
13	Masoud Ali		Resident
14	Athman Fadhili		Resident
15	Athmani Mangi		Resident
16	Ruth Yongo		Resident
17	Cosmas Mramba		Resident
18	Shalet Karisa		Resident
19	Vincent Karisa		Resident
20	Paul Mtawali		Resident
21	Francis Kitsao		Resident
22	Flevian Mwaria		Resident

#### **ABBREVIATIONS**

Assitant Engineer
Environmental officer
Any Other Business
SARI GATH SGAPI

#### **AGENDA**

1. Introduction



in Joint Venture with



and





**-** 26 -

- 2. Reason for stakeholder Consultation
- 3. Current Water Sources and Challenges
- 4. Interventions to address the Challenges
- 5. Potential project Impacts (Positive and Negative)
- 6. Comments and Responses
- 7. A.O.B
- 8. Adjournment







**-** 27 -

MINUTE		ACTION BY
NO:	DESCRIPTION	
Mtg.1-01	INTRODUCTIONThe Chief called the meeting to order at 1015hrs. The meeting beganwith a word of prayer that was led by one of the residents. This wasfollowed by brief self-introduction by all residents.	All
	The chief then invited the consultants (Assistant Engineer, Environmental Officer and Surveyor) who introduced themselves then stated the agenda of the meeting that was adopted.	
Mtg.1-02	REASON FOR STAKEHOLDER CONSULTATIONThe Assistant Engineer gave a brief introduction of the Project scope.Then later welcomed the Environmental officer who briefed theparticipants on the reasons for holding a public meeting for the project.	Consultant
	The participants were informed that this was to give them a chance to air their views about the proposed project, create awareness, request for their support, as well as adherences to legal requirement that requires the proponent to inform the area resident about their intention to implement a project in their area before commencement. Further to give them a chance to air their views, assist in anticipating impacts and recommending mitigations measures and create awareness of the proposed intervention.	
Mtg.1-03	CURRENT WATER SOURCES AND CHALLENGES       Consultant         The stakeholders commented on the fact that water has been a major       Consultant         challenge due to its frequent shortages, high prices and occasional       Consultant         broken pipes despite the fact that they lived near the water source.       Consultant	
Mtg.1-04	<b>INTERVENTIONS TO ADDRESS THE CHALLENGE</b> The Assistant Engineer mentioned the project implementation timelines and stated that the project would tentatively begin around October 2021 and take about a year to complete. He further stated that the pipes of DN 800mm for 29 km and there would also be a reinforced concrete reservoir of capacity 5,000m <sup>3</sup> tank.	Consultant
Mtg.1-05	POTENTIAL PROJECT IMPACTS (POSITIVE and NEGATIVE) Positive project impact	
		Consultant







		1
	<ul> <li>Accessibility to clean and reliable water, hygiene and sanitation, reduced water and Improved sanitation burden to women, Increased land values in the project area.</li> </ul>	
	Negative project impact	
	• Impacts on biophysical environment (Vegetation destruction, soils, water resources pollution or over abstraction)	
	<ul> <li>Social Environment (labor influx, child labor, gender inclusivity, human rights, teenage pregnancies, school dropouts, HIV and AIDS,)</li> <li>Health and Safety Impacts (Noise and vibrations, air pollution,</li> </ul>	
	accidents on site, fire disasters, public health)	
Mtg.1-07	COMMENTS AND RESPONSES	
	Comment – Cost of the proposed project	
	The residents requested to know the total project cost and how much	Resident
	was set aside for the CSR	
	Response	
	The consultant informed the meeting that the project cost is	
	approximately Ksh 2 billion, the residents were advised that during	Consultant
	implementation and based on the budget some CSR proposals may be considered	
	Comment – Functionality of the new proposed pipeline	
	The community wanted to know if they will be allowed to get water from the new pipeline once its complete.	Resident
	Response	
	The community will use the existing pipeline and additional water kiosks	
	will be considered, however the new proposed rising main will only be	
	used to supply water to Kakuyuni tanks.	Consultant
	Comment – Job Requirements	constitutie
	The residents wanted to know if they will have to produce NHIF, NSSF	Resident
	and Certificate of Good conduct before they can be recruited.	
	Response	
	They were informed that those requirements are not only mandatory	
	but also a basic requirement of the law of Kenya, however, for casual	Consultant
	labourers an Identification Card is mandatory.	
	Comment – Sound Pollution	
	The residents wanted to know how sound pollution from the heavy	Resident
	machinery will be mitigated since one of the construction site is near a	
	school compound (Proposed Kakuyuni Tank).	
	Response	
		Consultant







	Minimal use of machinery will be used and when avoidable, use of	
	machinery will be done with controlled noise production	
	Comment – Compensation	
	The community wanted to know if there will be any land and way leaves	
	compensation.	
	Response	
	For the pipeline route, it was noted that it will use the existing road	Consultant
	reserve. The new proposed tank will be constructed at Kakuyuni Boys	
	Secondary School and the client had were in negotiation to come up with	
	a mutual agreement. In additional relevant permit from road authorities	
	will be obtained before commencement of works along the reserves and	
	there were no private properties, trees or crops that would be interfered	
	with hence no one would require compensation	Resident
	Comment – Non-Operational Kiosks	
	The residents wanted to know if they were any plans set aside for the	
	non-functional kiosks.	Consultant
	Response	
	The non-operational kiosks will be rehabilitated.	
Mtg.1-08	A.O.B	
	The Chief requested for cooperation from the community for smooth	Chief
	running of the project.	
Mtg. 1-09	Adjournment	All
	The meeting was closed with a word of prayer from a resident at	
	1130HRS	
R		







MINUTES SIGNED AND AGREED UPON BY:

For and on behalf of Client (CWWDA)

DATE 4-06-2021 SIGN

For and on behalf of torse administration (Assistant Chief)

For and on behalf of Consultant (SARI GATH SGAPI)

SIGN 1920 DATE 416 2021 By Lydiah Mbogo DATE 4161202

7|Page





and











# CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF PRELIMINARY DESIGNS, DETAILED DESIGNS, SAFEGUARDS DOCUMENTS AND TENDER DOCUMENTS AND CONSTRUCTION SUPERVISION OF SECOND BARICHO – KAKUYUNI WATER PIPELINE AND TRANSMISSION PIPELINES TO KILIFI AND GANDA TANKS

MINUTES FOR PUBLIC CONSULTATION MEETINGS AND KEY STAKEHOLDERS INTERVIEWS HELD ON  $6^{TH}$  MAY 2021 AT JILORE

NATURE OF MEETING:	PUBLIC CONSULTATION
PARTIES IN ATTENDANCE:	CONSULTANT & COMMUNITY
DATE:	MAY 6 <sup>TH</sup> , 2021
VENUE:	JILORE







# MINUTES FOR PUBLIC CONSULTATION MEETINGS AND KEY STAKEHOLDERS INTERVIEWS HELD ON 7<sup>TH</sup> MAY 2021 AT JILORE

#### **MEMBERS PRESENT- LIST OF ATTENDANCE IS ATTACHED**

No.	Name	Organisation	Designation
1.	Boniface Kogi	SGAPI SARI GATH	A.E
2	Lydia Mbogo	SGAPI SARI GATH	E.O
3	Joseph Mulusya	SGAPI SARI GATH.	Surveyor
4	Mercy Makadu	SGAPI SARI GATH	Sociologist
5	Charles Mulewa		Chief
6	Nelly Kadzeha		Assistant Chief
7	Mwamure Masha		Resident
8	Hinzano Kadzeha		Resident
9	Ulice Mthengo		Resident
10	Amos Kahindi		Resident
11	John Chea		Resident
12	Christine Mwathethe		Resident
13	Nickson Mitsanze		Resident
14	Austin Mwamure		Resident
15	Alfred Kahindi		Resident
16	Elias Thoya		Resident
17	Peter Charo		Resident
18	Lucy Jumwa		Resident
19	Annet Katunda		Resident
20	Monica Maita		Resident
21	Lillian Sidi		Resident
22	Adija Munala		Resident
23	Pauline Kadzomba		Resident

## **ABBREVIATIONS**

Assistant Engineer
Environmental officer
Any Other Business
SARI GATH SGAPI

# <u>AGENDA</u>

- 1. Introduction
- 2. Reason for stakeholder Consultation



in Joint Venture with



and





**-** 33 -

- 3. Current Water Sources and Challenges
- 4. Interventions to address the Challenges
- 5. Potential project Impacts (Positive and Negative)
- 6. Comments and Responses
- 7. A.O.B
- 8. Adjournment









MINUTE		ACTION BY
NO:	DESCRIPTION	
Mtg.1-01	INTRODUCTION	
	The Chief called the meeting to order at 1400hrs. The meeting began	
	with a word of prayer that was led by one of the residents. This was	All
	followed by brief self-introduction by all residents.	
	The chief then invited the consultants (Assistant Engineer,	
	Environmental Officer and Surveyor) who introduced themselves then	
	stated the agenda of the meeting that was adopted.	
Mtg.1-02	REASON FOR STAKEHOLDER CONSULTATION	
	The Assistant Engineer gave a brief introduction of the Project scope.	
	Then later welcomed the Environmental officer who briefed the	Consultant
	participants on the reasons for holding a public meeting for the project.	
	The participants were informed that this was to give them a chance to	
	air their views about the proposed project, create awareness, request	
	for their support, as well as adherences to legal requirement that	
	requires the proponent to inform the area resident about their intention	
	to implement a project in their area before commencement. Further to	
	give them a chance to air their views, assist in anticipating impacts and	
	recommending mitigations measures and create awareness of the	
N4+= 1.02	proposed intervention.	
Mtg.1-03	CURRENT WATER SOURCES AND CHALLENGES	Consultant
	The stakeholders commented on the fact that water has been a major challenge due to its frequent shortages, high prices and occasional	Consultant
	broken pipes despite the fact that they lived near the water source.	
Mtg.1-04	INTERVENTIONS TO ADDRESS THE CHALLENGE	
Mig.1 04	The Assistant Engineer mentioned the project implementation timelines	
	and stated that the project would tentatively begin around October 2021	
	and take about a year to complete. He further stated that the pipes of	Consultant
	DN 800 for 29 km and DN 600 for 12.5 km, there would also be a $5,000$ m <sup>3</sup>	
	tank.	
Mtg.1-05	POTENTIAL PROJECT IMPACTS (POSITIVE and NEGATIVE)	
	Positive project impact	
	• Accessibility to clean and reliable water, hygiene and sanitation,	
	reduced water and Improved sanitation burden to women,	Consultant
	Increased land values in the project area.	
	Negative project impact	







-	The meeting was closed with a word of prayer from a resident at 1630HRS.	
Mtg. 1-09	running of the project. Adjournment	All
Mtg.1-08	<b>A.O.B</b> The Chief requested for cooperation from the community for smooth	Chief
	implementation and based on the budget some CSR proposals may be considered	Consultant
	approximately Ksh 2 billion, the residents were advised that during	
	<b>Response</b> The consultant informed the meeting that the project cost is	
	The community requested to know if the project will consider any CSR	Resident
	Comment – CSR	Destals of
	leave to the proposed reservoir at Kakuyuni Secondary School.	
	They were informed that the pipeline will follow the old pipeline way	Consultant
	Response	
	The community wanted to know the pipeline route.	
	Comment – Pipeline route	Resident
	with hence no one would require compensation	
	there were no private properties, trees or crops that would be interfered	
	will be obtained before commencement of works along the reserves and	
	a mutual agreement. In additional relevant permit from road authorities	
	Secondary School and the client had were in negotiation to come up with	
	reserve. The new proposed tank will be constructed at Kakuyuni Boys	Consultant
	<b>Response</b> For the pipeline route, it was noted that it will use the existing road	
	disturbed or displaced during project construction.	
	The residents requested to know if they will receive compensation if	
	Comment – Compensation	Resident
Mtg.1-07	COMMENTS AND RESPONSES	
	accidents on site, fire disasters, public health)	
	Health and Safety Impacts (Noise and vibrations, air pollution,	
	AIDS, resettlement issues)	
	human rights, teenage pregnancies, school dropouts, HIV and	
	• Social Environment (labor influx, child labor, gender inclusivity,	
	soils, water resources pollution or over abstraction)	







MINUTES SIGNED AND AGREED UPON BY:

For and on behalf of Client (CWWDA)

DATE 4-06-2021 SIGN.

For and on behalf of Local Administration (Chief)

For and on behalf of Consultant (SARI GATH SGAPI)

BY Lydich Mbigo DATE 4/6/2021





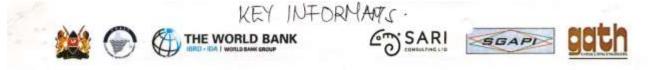
and





**-** 37 -

#### Attendance Sheets



## WATER AND SANITATION DEVELOPMENT PROJECT (WSDP)

	F ATTENDANCE - Public Con	sultation Meetings and Key Stake			
No.	Name	Organization/Designation	Email	Phone No	Signature
1.	ISAAC CHIBLE	MAWARDITA	ichibule ( grain com	0723161671	A.
2.	Lydiah Mbago	SARI   GAT H - Consulant	lydhuanj 100 gabe com	072.5137524	NATOS
3.	Bonitale Kanan Kogi	Assistant Epinee	Kagi bane Smalle.		18-
4.	Joseph Mulusya	SARI / GATL - Consultan	mulusyai@gmeul.com	079201625	Jet
5.	Meray Makadu	ACARI JANGA - CONVITANT		0700157376	Her
6.	CosmAs KAI	MAWASCO TECH	LOSKAisoegmail.a	071441222	2 bhil
7.	Jacinta M. Makan	CGK/ planner	jontmb the yabovan	07-21673041	(fortent "
8.	KAZUNGU MATTA	Country 6. of Kila	almaitre sog ton	072.603.9041	Artito
9.	Julius Fouds	MUNICIPATION OF MALINGI	jeyfondo1230gmalla	m, 0729 8558	Set







No.	Name	Organization/Designation	Email	Phone No	Signature
10.	Linet Rabibu	to the attan Malindi Sc	I The trabibilition	0917060	toget .
11.	John Kipsing	INTERIOR	ofcenalindizers &	0722178631	Jun-
12.	HELLY UMAZI MATSICHA	ASSISTANT CHILT	Mardzelancours internet	0920301120	-
13.	Hezekiah Mwanua	MD-KIMAWASG	himmana Q Wilifinger. Co. Ke	72137995	tan
14.	Ene. G. King Kepy	NCDWE5	Kiggene 490	OF IS BAS	CALLER X
15.	Kutowa Dialla	re-Kiliti	CCRILINI COOMINTION	07 2262 H34	( Drate
16. (	Japton MarryA	Dec 14451 MAR	- douter food ster	No OTLE	2 Mar
17	FRIC MAITHA	DOT-KIMA	(Mathabached a	0720202-	and the
18.		1 111	d.		1.0
19.					
20.					
21.					
22.				100 B	
23.		-			









#### WATER AND SANITATION DEVELOPMENT PROJECT (WSDP)

JST C	OF ATTENDANCE - Public Con	sultation Meetings and Key Stake	holders Interviews	DATE: AP	Ht , 2021
No.	Name	Organization/Designation	Email	Phone No	Signature 7
1.	NAPHTAL BIRYA	TINTERIOR		079057	100498
2.	PST. SAMSON A - WAMUNGA	BOM MEMBER- KAILUNUHI BOYS SEC.	Samson wominga 10	0720248614 0737 039118	Amydelfe
3.	MIXON MRAMBA	MCA	-	072282036	off
4.	SAMUEL JETWA YAA	BOM MEMBER - KAENENI BOYS SEC	Egnel Jefuzaol7	0923400180	tala
5.	KITHI ROBERT JOHNAN	DEPUTY PRINCIPAL	Kithiwehuegman 1. 64	0716647576	FRAL
6.	Ens. I.K. KEMDAGOK	REGIONAL DURGUTOK-KER	HA YULLOO, CO.U.K.	0722946297	-
7.	Eng. Neumannes KRADERO	Director RTPW	Kernigodirector	0723445006	THATER
8.	0				
9.					







Proposed Water Supply Project LOT 1 - Transmission Pipeline from Baricho to Kakuyuni Reservoir

SGAPI



# WATER AND SANITATION DEVELOPMENT PROJECT (WSDP)

CONSULTANCY SERVICES FOR PREPARATION OF PRELIMINARY DESIGNS, FEASIBILITY STUDY, DETAILED DESIGNS, SAFEGUARDS DOCUMENTS AND TENDER DOCUMENTS AND CONSTRUCTION SUPERVISION OF SECOND BARICHO - KAKUYUNI WATER PIPELINE AND TRANSMISSION PIPELINES TO KILIFI AND GANDA TANKS

No.	Name	Organization/Designation	and the second second	DATE: A	pril , 202
2		Orgonization/Designation	Email	Phone No	Signature
1.	CHARLES M. MULEWA	CHIEF	CMulawa 6289mile	0723532021	the
2.	HELLY U KATSZEHA	ASST. CHIEF	thard zelow manaporde		
3.	MWAMMER MASHA	BALCEN KAKONEH,	a Street over 5 where with	0708347212	these
4.	HINZAND P. KADZEHA	HEAD TEACHER-JILONE	himzanopondaz@gma	0728994666	Allen
5.	UNCE MTHENGO	W PWO		0713226014	
6.	AMOS KAHIMAI MUKARE	MELDER			CANKS 101
7.	JOHN Nº CHUM	PWD	John chags gal yman	0714663219 - 0714227039	1.0
B.	CHRISTINS .P. MWATHETHE	V CNOCE			AGK.
9.	NICKSON K MITSANZE	P	mitemzeegahorom o	0717615795	Re



...

in Joint Venture with







No.	Name	Organization/Designation	Email	Phone No Signature
10.	AUSTINE MWAMURE YAA	MPS OFFICE		0724362348 45.
11.	ALIRED KAHIARO (	BALDZ(		0721885767 1855
12.	ELINS THOUM NOODO	BALD 21		0168677866 00000
13.	PETER CHARO MAI THA	BALOZI		5711784594 <b>D</b> Z
14.	Lucy Jumius KAINGU	VIELDER		0727513226 plunt
15.	ANNET KATUNSA	VIELDER		0706089591 000 -
16.	MONICA M MAITA	BALOZI		0725385951 Basi
17.	LILIAN SIDI DTERA	YOUTH REPRESENTATIVE		0114344923
18.	ADISA KUMEN MOHALA	BALOZI		0108819610 19800-
19.	PAULINE-CI-KADZOMBA	BALOZI		0720837827 Story
20.				
21.				
22.	the start and the			
23.				











SARI

SGAPL

IST C	DF ATTENDANCE - Public Con	sultation Meetings and Key Stakeholde	ers Interviews	DATE: Ap	oril , 2021
No.	Name	Organization/Designation	Email	Phone No	Signature
1.	ALPHONICE KISSAD JEFWA	INITIGRION CHIEF		0793723682	Alkin
2.	FARLOA GARAMA MAZRUT	IN TOUGH ASST. CHEF		07034185180	then A
3.	BENDERA CHENGO THOS	A VILLAGE ELOPA		0715751113	1200
4.	NELLY , KA MAUENI	ELDER KKY.		072459628	Nicotrito
5,	Priscing Kabili Kabind	· · · ·		057-14-00231	6 P.B-
6.	Annor Sufferi			07-427095	A ANNA
7.	SIME HYALA KAISA			0715081558	Hen
8.	PAUL KARISA CHARD	VILAGE		0724641034	#206
9.	BENTAMON KARISA AMANI	VILLAGE ELDER		0721101346	BKAaa'















No.	Name	Organization/Designation	Email	Phone No	Signature
24.	MASOUR ALL SARD	Ustadl AL FAT Misc	manufaliozy Og	0720341187	22/100
25.	ATHMAN FROHILI	KARIYUUI - NEIDENT	altman fe gmail com	0753883402	distility
26.	ATHMAN MANGE	MZER NYUMBA KUMI		0726364623	Alta
27.	Rum yongo	KAKISYUHI- RESIDENT	7 UT 2000 LEALLOG Y MULTIC	M 072505891	5 🐵
28.	COSMAS MRAMBA	MONGOTINI-		0716192715	them
29.	SHALET CIKARISA	MONGOTINI		07905039	43 802
30.	VINCENT. F. KARISA	Moneoliasi		0708451952	Stat
31.	PAUL MEANSAN HARE	MONGOTINI		072811646	143-
32.	FRANCIS KITSHO NZARO	KAKUYUNI RESID	Concis kitsao ngaro	0705144258	Attaunans
33.	FLEVAN MWARIA KATAMA	KAWYUN BAWD	mflewallogues !!	0728997285	Anne
34.	· · · · · · · · · · · · · · · · · · ·				
35.					
36.					







RAP Screening Report	Proposed Water Supply Project LOT 1 - Transmission Pipeline from Baricho to Kakuyuni Reservoir



### WATER AND SANITATION DEVELOPMENT PROJECT (WSDP)

IST O	ATTENDANCE - GANDA Public Consultation Meetings and Key Stakeholders Interview		ublic Consultation Meetings and Key Stakeholders Interviews DATE: April , 2021		sultation Meetings and Key Stakeholders Interviews		
No.	Name	Organization/Designation	Email	Phone No	Signature		
1.	BARTHOLOMEN N.KTUN	INTERIOR CHIEF	Jambar Kitinga	obsidartad	Start L		
2.	Owner Hassen MADEL	ASST. CHER- CANAL	omegor equalle	0727 843 520	Florge		
з.	June maries Omen	ASST - CHIEF - MERE	jumanised to mout for	1. S. 1	1700		
4.	GNNE Neme ZIRO	ASST CHIGH-MEABAHA	anna nema 24 C.	0721 4260 ¢¢	Amo		
5.	mothemet Sucemen Kasin			0727912556	portonal.		
6.	REDAGE CHENSE KEDMERA	1.1.1		0712156357	*		
7.	RASHER KALL KITAN		100	0711839446	tooto		
8.	Mumorreal, Albane Cathoring			072569127	2 Hol		
9.	Shim One Award.			0713200R	B		







No.	Name	Organization/Designation	Email	Phone No	Signature
10.	Atunes Masons Oman	MERE		077-350624 <del>074×273</del>	polas
11.	ONERMUS HENRA	MELE LESIDENT		071837901	al-1
12.	Richter Mitsente	hore	<u> </u>	0714013704	Andrea
13.	SATS OWER LAS	CLANDA	alganalogency Eg	0720297182	Buch.
14.	JOSPHET TEMO CHILDEN	METLE		0710244194	Est
15.	AL MORANES MOVER.	MERE		079549846	Are
16.	Arbert WANTE	here		8719554199	the
17.	FLORENCE HAVE	WERE		0729249167	etta.
18.	Jume Kotanisi	hent		0798777297	de-
19.	Orres Lithache tes	CANNE		0743619763	LOMARI
20.	George chango Kadhunog	GANNA		0712156357	E
21.	RASHIDIKALU.	CANSA		0711839446	RASHID
22.	JONINTHAN KK MARCHA	Mere	Otaxi	0795721504	Alen
23.	Salim Omari Anadhi	Chank		071320050	







No.	Name	Organization/Designation	Email	Phone No Signature
24.	SAID OMAR SAID	G.L.WB4		0720297182 Stra
25.	KARABU NGIRA	MERE		0705146922 000
26.	JOSPHAT TEMO CHIKOLA	Merze		0710244194
27.	RICHARD KARLSA MITSANIE	NERE		0714013704 (Junton
28.	Abdultehman NJema	MERE		0727566766 0000
29.	Kalind, Lawrence Komb	e Kasembiji		0711616013 2005
30.	UNSSOR HAMOUD	MERE		072120UBS NOT
31.				
32.				
33.				
34.				
35.	3			
36.				







#### Appendix 3: Sample Questionnaires

core of any and any	t questionnaire		
to agreed water sig- temporating environs	iphi system in the town	WWDA, through isopport from World Bank ine is of Makindi, Rotacius, Killi and Qongori and Ive implementing Sancho – Kakoyuni Wabor and Ganda Fanks.	ends thair
Regulations, 2019 and Environmental Impact consultation and public Works Development (	The constitution of ke cand screament (EIA) Is participation in the p Agency has adjointed 5	and to subsequent supplement of pavervine rys such projects and in the subsected to an to ensure sustainability. This includes cardual reject areas. As part of the protects, Court Wo AM / STAM / GATH // to conduct ISM for the Poublic consultation that will be included to	ling dar
excitizance for response	fing to of questions are	the exercise and see wands highly appreciate this questionnaire advantation and approach rains going in your comments where nonessa	Wy a
accession of the set of the	Contraction and the second second	cause that and the local population in Austral contaction	ēγ,
You have been prior excitizance for response possible. Russe fill in	led to perticipate in th fing to all quantizes in the following quantizes	In meeting and we would highly appreciate this countermore advocately and appropria rate going in your comments where recease	n pola tely a ty:
You, have lover prior orbitance for respons possible. Assaults in Pour response will be project.	ted to perficipate in th fing to all quantities in the following quartities Mentified with confident	In meeting and we would highly appreciate this complications advocately and opproxist rates going in post comments where recesse Melley and will only be used for the purpose	r yda refy a ry: ig yda
You, have been prior evolution to response possible. Ansate the in Pour response will be project: Name of testitution a	ted to perficipate in th fing to all quantities in the following quantities weather with confident CLAAA	In meeting and we would highly appreciate the constituents advantation of approxima- rates going in pour community where reserve theory and will only be used for the purpose trace $2407 282$	r yda refy a ry: ig yda
You, have been prior excitizence for response possible. Assaulting Pour response will be project. Name of statutes of Name of statutes.	ted to perticipate in the fing to all quantum in the following quantities weated with confident CLAAA CONSULTING	In mention and we would highly approcision this constitution advocately and appropriate rates going in pour comments where elements where and will only be used for the purpose toos. $24077282$	r yda refy a ry: ig yda
You, have been prior excitizence for response possible. Assaulting Pour response will be project. Name of statutes of Name of statutes.	ted to perticipate in the fing to all quantum in the following quantities weated with confident CLAAA CONSULTING	In meeting and we would highly appreciate the constituents advantation of approxima- rates going in pour community where reserve theory and will only be used for the purpose trace $2407 282$	r yda refy a ry: ig yda
You, have been prior excitizence for response possible. Assaulting Pour response will be project. Name of statutes of Name of statutes.	end to participate in the long to all quantitates in the following quantities overland with complete CLAMA COMPLETENT COMPLETENT on EAS TOKIST	In mention and we would highly approcision this constitution advocately and appropriate rates going in pour comments where elements where and will only be used for the purpose toos. $24077282$	r yda refy a ry: ig yda
You, have been prior evolution to response possible. Ansate the in Pour response will be angiest. Name of transienal. Name of the responde Kindly III in the paret SECTION A: GENERAL L. What is your troop	ned to participate in the long to all quantitates in the following quantities wanted with confident CLAAA COMOLETING COMOLETING TO EAST TO KIGTA tormains	the number and we would head a separation the constituents advantation of approximate rates going in pour community and approximate theory and will only be used for the purpose const 24107 2821 Const 24107 2821	r yda refy a ry: ig yda
You, have been prior evolution to response possible. Assault in Pour response will be angiest. Name of interviewest. Name of interviewest. Name of the responde Kindly III in the paret Michael III in the paret	net to performent to the fing to all quantities in the following quantities wanted with confident CLAAA CONSULTING CONSULTING TO EAS TO KIGHT tormains INFORMATION	the number and we would head a separation the constituents advantation of approximation rates going in pour community and approximation there and will only be used for the purpose toose 24107 2821 toose 24107 2821	r yda refy a ry: ig yda
You, have been prior evolution to response possible. Ansate the in Pour response will be angiest. Name of transienal. Name of the responde Kindly III in the paret SECTION A: GENERAL L. What is your troop	net to performent to the fing to all quantities in the following quantities wanted with confident CLAAA CONSULTING CONSULTING TO EAS TO KIGHT tormains INFORMATION	the number and we would head a separation the constituents advantation of approximate rates going in pour community and approximate theory and will only be used for the purpose const 24107 2821 Const 24107 2821	r yda refy a ry: ig yda



in Joint Venture with



and



**-** 48 -

HIGTLIN M.		This aver benintedy	and the second se
dore than 200		V	
. What your views on we	or appricant in this large	a'	
121	(Station)	and a second	
Faox	V		
Fait			
Good			
<ol> <li>Are yes awate 2<sup>4</sup> the P and Transmission Plank</li> </ol>		of Second Balana – Kakaya Tusia I	v Water Pipeline
		554800	
THE W	50		
1. Do you support the pro	jeci7		
	Second Second		
Yes M	Ho		
1. Sufficient 2. Sufficient 3. Deruteto 4. Increase 5. Increase 6. Employ	bints of t bints of t bit on Cult	to the Communi he posicil orige content areas on soute on the po s to laced off	Into the trad
6. Are there are visible op	tione sorthis project.1	1000	
		r	
We	ne V		
NA	and goes reactions		
-MON-			





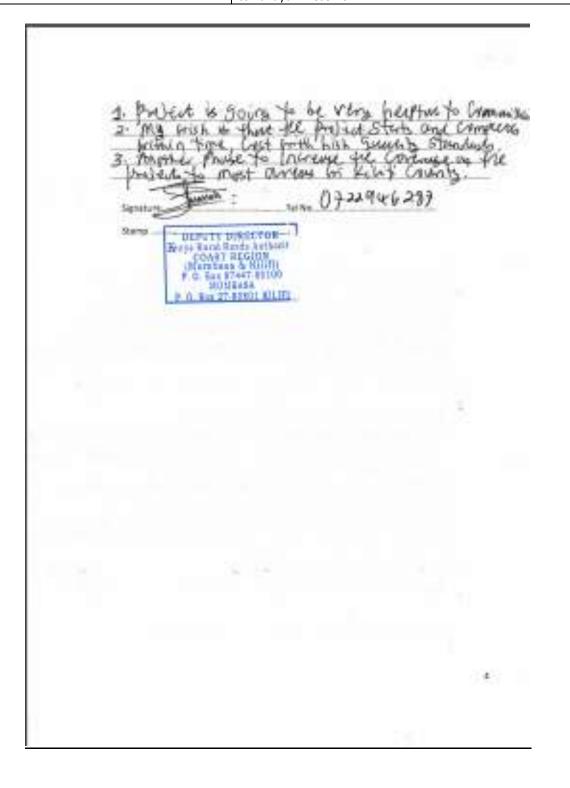


SECTION &: ANTIORATED IMPACTS 7. What are the expected POSITIVE impacts of the project fram construction where through to Ferraria and operations phases? tion -1. Increased available into an portable light-2. Increment illurismic astributions 3. Infrarrent Scinitation and place standards 4. Bonfutgeent Creation to Lowels. 8. What are the expected MERATIVE impacts of the present from construction phase through to commissioning and exemptors phases? preventione is discussed such as fely Asas 2. Environmental approximations Sai Errin Etc. 3. Displacement or Pendation along pipense marte 4. Disnettion of Etmiles Such in Wille party lottle bot S CULLARE Change Semile 8. What suggestions would pourmain to rungate any adverse control exects in inpacts during the project caratraction, retrievening and operations? AMIN 1 Walnut purticipation repte awarentes 2-1 to licence & frontituetions affected 3. Undertwee a preserve study and Suggest brigs a Minighting on the advese titute as trets to misit milliguite on adverse 4. Planting Connormation lifests 33. Finance state the current provisionmental and sold at challenges in the project area? 1. Laux on basic aumenities such we schore header smith ow Consistion theels 2aw heilth Standards 3. C 4. Low conservation efforts on environment 11. My relevant alternations, recommendations or conversion on this project. ۱











in Joint Venture with



and



**-** 51 -