

ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT ADDENDUM REPORT



POWER SUPPLY COMPONENT FOR THE MOMBASA SPECIAL ECONOMIC ZONE
(PROPOSED 51KM MARIAKANI - DONGO KUNDU 220kV TRANSMISSION LINE
AND THE ASSOCIATED DONGO KUNDU SUBSTATION)

JUNE 2022

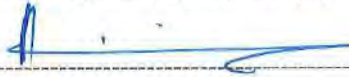
1 DECLARATION

This document has been prepared in accordance with Environmental (Impact Assessment and Audit) Regulations, 2003 of the Kenya Gazette supplement No. 56 of 13th June 2003, Legal Notice No. 101.

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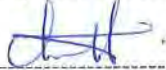


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Do hereby certify that this report was prepared based on the information provided by various stakeholders as well as that collected from other primary and secondary sources and on the best understanding and interpretation of the facts by the Environmental Social & Impact Assessors. It is issued without any prejudice.

AIDS	Acquired Immune Deficiency Syndrome
CCTV	Closed Circuit Television
DOHSS	Directorate of Occupational Health and Safety Services
EA	Environnemental Audit
EIA	Environnemental Impact Assessment.
EIS	Environmental Impact Statement
EMCA	Environmental Management and Coordination Act
EMoP	Environmental Monitoring Plan
EPRA	Energy and Petroleum Regulatory Authority
ESMP	Environmental and Social Management Plan
GBVH	Gender Based Violence and Harassment
HIV	Human immunodeficiency virus
KenGen	Kenya Electricity Generating Company
KETRACO	Kenya Electricity Transmission Company
KPLC	Kenya Power & Lighting Company
kV	Kilo Volt
L.R	Land Registration
MoE	Ministry of Energy
MSDS	Material Safety Data Sheet
NEMA	National Environment Management Authority
OSHA	Occupational Safety and Health Act
PPE	Personal Protective Equipment
REREC	Rural Electrification and Renewable Energy Corporation
SCADA	Supervisory Control and Data Acquisition
SHE	Safety Health and Environment
STD	Sexually Transmitted Diseases

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7 EXECUTIVE SUMMARY

Introduction

The country's development blueprint, the Vision 2030 recognizes the energy sector as one of the infrastructure enablers of the economic, social, and political pillars underlying the Vision. The sessional paper No. 4 of 2004 on Energy recognizes that affordable, quality, and cost-effective energy services is an important prerequisite for attainment of accelerated social and economic growth and development. In view of these considerations, energy sector development is a key policy concern for **Kenya's development**.

During his second term (2018-2022), the President of Kenya His Excellency Uhuru Kenyatta **announced his new plan, the 'Big Four'** to guide the development agenda of the country. The Big Four focuses on key basic needs that are critical in uplifting the standard of living of Kenyans on the path to becoming an upper middle-income country by 2030. The agenda priorities are affordable and decent housing; affordable healthcare; food and nutritional security; and employment creation through manufacturing (Kara, 2019).

In a bid to attaining the Big 4 Agenda, the government has begun realigning its resources towards reviving manufacturing, boosting food production, security, building affordable housing and expanding access to medical care. These targets can be achieved through reliable, accessible, and affordable electricity.

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned State Corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Project Description (Change in project route)

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019.

Since then, upon further technical studies on the project, variations on line route and substation site have proposed as follows: -

- i. The original substation site in Mringo Ndori near Mwangala Primary School the ESIA report for Dongo Kundu substation was found unsuitable due to unfavorable terrain and KETRACO has since identified an ideal 6.3 acres site, GPS coordinate Arc 1960 UTM-375 (566375, 954675) for construction of the proposed substation within the proposed Mombasa Special Economic Zone, Mbuta Location (formerly Mtongwe Location), Likoni subcounty in Mombasa County.
- ii. Line route variation at the entry point into the proposed substation site. The total varied length of the line is 28km. The overall impact of the variation on the line is a reduction of its length by 2km, that is from the initial 53km as presented in the parent ESIA report to 51km.
- iii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation. The variation affects the section of the line between MDK 1 and MDK 5 at total length of 3.4 km. This variation lies within Mariakani Location, Kilifi County.

- iv. Line route variation between MDK 7 to MDK 12 to give room for the implementation of the proposed Mwache Dam. This route within this section moves between 1.5 km to 0.3 km westward off the original route.
- v. Kaya Gandini and Lutsangani Community Forest where the line was shifted to cross the narrowest part of the forest already disturbed by the road construction that separates Kaya Gandini and the community Forest. Previously, the line cut along the full length of the community forest.
- vi. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic impact as a result of the original route and cumulative impacts to the Mteza community. The original route crossed the meandering Mteza (Cha Shimba) River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have been a significant impact to the community.

Therefore, to remedy this KETRACO's technical team moved the route to the south west by introducing three angles points MDK 14 outside Kaya Gandini and MDK 18 and 19 which are approximately 2km-3km off MDK 17. The remaining crossing was shifted to the narrowest part of the river to reduce to its footprint to the minimum.

In view of the above changes for the substation site for the substation transmission line route alignment, Ketraco has undertaken an addendum to the original ESIA report to update the project description; baseline information; policy and legal framework; the stakeholder participation and consultation; the potential positive and negative impacts; the mitigation measures; project alternatives and the environmental and social management plan (ESMP).

Objectives for the ESIA Addendum

The purpose of this ESIA addendum report is to:-

- a. Advise the proponent and all actors in the project on management of environmental and social issues resulting from the change in scope.
- b. Inform all key project stakeholders and the community of the change in scope;
- c. Predict and mitigate unforeseen environmental and social impacts resulting from the change of scope
- d. Seek variation of the project EIA license, reflecting the change in scope.

The Project Baseline

This report was limited to changes in baseline along the transmission line route due to the rerouted sections and change in the substation site in Dongo Kundu. There was no notable physical environment from the baseline collected in 2018 that would warrant collecting of various samples of specimen for lab testing of environmental parameters in soils, water air and noise. With that understanding therefore, baseline data for those parameters remains applicable for this addendum report.

That notwithstanding, the has recorded notable minimal changes in the physical and biological baseline with emphasis of the avoided receptors such as schools, a few residential areas, multiple crossings on rivers etc. The baseline in information in the socio-economics along the route has been updated by borrowing the RAP findings into the ESIA addendum.

The Policy and Legal Framework

This chapter as drafted in the original ESIA report remains relevant and was not therefore amended by this report

Stakeholder Engagement and Public Participation

KETRCO undertook a rigorous stakeholder engagement and public participation for the project for the essence of developing this addendum report and updating the RAP report. Additionally, the stakeholder engagement exercise served to meet the following objectives:-

- Create public awareness about the proposed project and proposed changes in route and substation site
- Seek public opinion and concerns relating to the project and more specifically problems they anticipate and ways of overcoming them
- Obtain professional opinion from sector heads including departmental heads and local administration
- Consultatively and in a participatory way identify potential positive and negative impacts of the project and seek remedial measures
- Sell the project to the public for their acceptance and ownership
- Improving transparency and accountability of decision making
- Obtaining local and traditional knowledge that may be useful to decision making including Indigenous Knowledge Systems (IKS)

The exercise purposed to consult both the key informants (lead agencies, NGOs, CBOs among other) and the community members based on the stakeholder mapping undertaken in 2018 and updated in 2021. The exercise was undertaken in the dates as shown in the table below:-

Date	subproject
20 th September to 3 rd October 2021	Dongo Kundu Substitution
28 th February to 12 th March 2022	Mariakani DongoKundu Line

29 key informants were consulted as shown in Table 14 in the main report while the table below provides a summary of public engagement meetings held:-

Date	Location	Venue	Number of attendants
28 th September 2021	Mbuta Location (Formerly part of large Mtongwe Location)	DCC Grounds near Mwangala	30
07 th March 2022	Mariakani Location (Mitangoni sublocation)	Mbuyuni (near EMACO Hotel along the Mombasa)	45
	Mwavumbo Location (Kalalani sublocation)	Mwanda	136
08 th March 2022	Mtaa Location	Vitangani ECD	53
	Mwatate Location	Chief's office	76
09 th March 2022	Kasemeni location (Mnyenzeni and Bofu sub-locations)	Chief's office	124
	Gandini Location	Lutsangani AP Camp Grounds	53
10 th March 2022	Ngombeni location	Kiteje Chief's office	68
	Mbuguni Location	Chief's office	68
Total			653

15 questionnaires were administered to various key informants and 110 questionnaires to community members. Stakeholder views collected from the participants interviewed have been

included in this report. The attendance sheets and minutes for the meetings have been annexed to this report.

Impact Identification Analysis and Mitigation

The impacts section in the original report was reviewed and updated accordingly with regards to the changes in route for the transmission line. Change in substation site, additional baseline information, observation made in the field and views collected from the stakeholders.

The addendum report therefore presents an updated chapter on the same with notable reduction on impacts since the route avoided some significant receptors as detailed in the report and summary of route change as second section of this Executive Summary.

Project Alternative Analysis

This chapter has been updated in light of the changes in route for the transmission line and the substation site.

Environmental and Social Management Plan (ESMaP)

This chapter was updated accordingly to reflect changes in the Impact Identification and mitigation. The changes in RAP budgets were effected with the new budget being Two Hundred Sixty Eight Million, Eight Hundred and Twenty Four Thousand and Five Hundred and Ninety Nine Kenya Shillings (Kes. 268,824,599) which is a reduction from the initial budget of Four and Nine Million, Four Hundred and Eight-Seven and Seven hundred Thousand and Fifty-Eight (Kes 409,487,758) Kenya Shillings as recorded in the initial RAP budget.

Environmental and Social Monitoring Plan (ESMoP)

An ESMoP matrix table has been prepared which provides the monitoring aim, method, frequency, implementation responsibility and the associated cost.

Conclusion and Recommendations

This addendum report has demonstrated the proponent willingness to minimize the impacts of the project to the environment and the society by administering several changes to the route as presented. The crossings of rivers have been reduced; a shrine identified in the original ESIA has been avoided; the Kaya Gandini has been avoided; the crossing of the community forest in Lutsangani has been comparatively reduced; and owing to the significance of Mwache Dam, the new route presented has paved sufficient way for the implementation of the dam.

Additionally, the total length of the line has been shortened by 2km from the previous 53 to 51km but within an almost-similar environmental and socio-economic baseline as that presented in the initial ESIA report.

The initial ESMaP and ESMoP for the project has been considerably updated to cater for the changes in the route.

Considering the above, this recommends for review of this addendum report to the original ESIA and issue a varied license, considering the original license has expired, and reflective of the new route and new substation site as detailed in this report.

1 CHAPTER ONE: INTRODUCTION

1.1 Introduction

The Government of Kenya (GOK) prepared the Kenya Vision 2030 policy blueprint which among other things, aims at bringing about new industrialization and transforming Kenya into a middle-income country. The development of Special Economic Zones (SEZs) in the Kenyan towns of Mombasa, Kisumu, and Lamu were proposed as a one of the core instruments for the realization of the Kenya Vision 203 with the Mombasa SEZ proposed as one of the flagship projects under this strategic vision.

The GOK has in turn requested the Government of Japan (GOJ) to facilitate support in formulating a Master Plan for the SEZ development in Mombasa. In response, the GOJ assented to the request has thus facilitated support for the formulation of the Master Plan for **the SEZ development in Mombasa with the 'Record of Discussion (RD) signed between Japan International Cooperation Agency (JICA) and GOK in November 2013.**

Energy is a critical component and key enabler for the Mombasa SEZ implementation. The level and the intensity of energy use in a country is a key indicator of the economic growth and development. The Kenya Vision 2030 identified energy as one of the infrastructure enablers of its socio-economic pillar. Sustainable, competitive, affordable, and reliable energy for all citizens is a key factor in realization of the Vision.

Electricity is a secondary source of energy generated through the consumption of primary energy sources namely petroleum, coal, renewable energy, and nuclear energy. By virtue of its versatility in application, electricity is crucial to the socio-economic development of the country and is the most sought-after energy service. Access to electricity is associated with rising or high quality of life.

According to data from the Ministry of Energy, current installed capacity is 2712 MW while the current demand is approximately 1800 MW. The current rate of energy demand is 8% and is projected to grow. Improving the supply of electricity through construction of high voltage transmission lines and substations improves reliability and connection of cheap sources of electricity to the national grid. This creates an environment where demand for electricity grows and accelerates economic growth.

In a bid to attaining the Big 4 Agenda, the government has begun realigning its resources towards reviving manufacturing, boosting food production, security, building affordable housing and expanding access to medical care. These targets can be achieved through reliable, accessible, and affordable electricity.

With this understanding, provision of reliable and stable power has been included in the Mombasa SEZ masterplan. From the previous studies done for the SEZ, including the feasibility studies and the master plan, high voltage electricity infrastructure forms part of the whole set.

Kenya Electricity Transmission Company is planning to implement a 51km 220kV Mariakani Dongo Kundu Transmission Line and an associated substation.

The transmission line traverses Kilifi, Kwale and Mombasa Counties, while the substation will be located within the SEZ complex in Dongo Kundu, Mtongwe location, Likoni Subcounty in Mombasa County.

1.2 Project Proponent

The project proponent is Kenya Electricity Transmission Company Limited (KETRACO). It is 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy.

Physical address is as follow: -

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1.3 ESIA Study Objectives

The Environmental & Social Impact Assessment (ESIA) process is a way to identify, predict and assess the type and scale of potential biodiversity impacts, and opportunities to benefit conservation, associated with any business activities or projects (AFC, 2019).

The main objective of this ESIA addendum study was to ensure that the anticipated environmental and Socio-economic concerns resulting from the changed substation site and line route alignment are identified, and possible mitigation measures provided to ensure sustainable development.

The objectives of ESIA involved the following:

- Review of relevant secondary data
- Collection, reviewing and analyzing relevant information from key project stakeholders
- Updating the Baseline survey/assessment of the line route
- Conducting public meetings (barazas) with the communities affected and beneficiaries of the project
- Updating the environmental and social positive and negative impacts
- Providing updated appropriate mitigation measures against negative impacts
- Provide an update chapter of project alternatives
- Updating the project Environmental and Social Management Plan (ESMP)

1.4 Project Justification

The Mombasa Special Economic Zone Project is currently undergoing Detailed Engineering **Design seeks to bridge infrastructure gaps mainly through provision of various utilities'** infrastructure and thus further level the field in readiness for SEZ Investors.

Provision of high voltage electricity infrastructure is part of the scope in providing an enabling environment to potential investors.

The power supply facilities for the Mombasa SEZ will be developed by Kenya Electricity Transmission Company Limited (KETRACO) and will consist of the following components:

- Development of 220 kV Transmission Line (TL) from Mariakani 220 kV substation to Mombasa SEZ (note that Mariakani 400/220 kV substation is not included in the Project scope and will be constructed through Mombasa-Nairobi 400kV Transmission Line project)
- Development of 220/33 kV substation inside Mombasa SEZ
- Development of 33 kV distribution line inside Mombasa SEZ from 220/33 kV substation

The SEZ is going to accommodate several industries that will be carrying out processing and manufacturing of products that will have significant power demand. The high demand for power cannot be met by the available power from Mombasa area hence the need to bring in power from elsewhere. It was therefore necessary to have a dedicated supply coming from a substation in Mariakani that receives power through the 400kV TL that comes from Nairobi. The 220kV line will run from Mariakani Substation to Dongo Kundu for distribution within the SEZ.

1.5 Project Variation and justification

Due to technical reasons, emerging new projects, environmental and social factors, variations on line route and substation site have been proposed as follows:-

- i. The original substation site in Mringo Ndori near Mwangala Primary School the ESIA report for Dongo Kundu substation was found unsuitable due to unfavorable terrain and KETRACO has since identified an ideal 6.3 acres site, GPS coordinate Arc 1960 UTM-375 (566375, 954675) for construction of the proposed substation within the proposed Mombasa Special Economic Zone, Mbuta Location (formerly Mtongwe Location), Likoni subcounty in Mombasa County.
- ii. Line route variation at the entry point into the proposed substation site. The total varied length of the line is 28km. The overall impact of the variation on the line is a reduction of its length by 2km, that is from the initial 53km as presented in the parent ESIA report to 51km.
- iii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation. The variation affects the section of the line between MDK 1 and MDK 5 at total length of 3.4 km. This variation lies within Mariakani Location, Kilifi County.
- iv. Line route variation between MDK 7 to MDK 12 to give room for the implementation of the proposed Mwache Dam. This route within this section moves between 1.5 km to 0.3 km westward off the original route.
- v. Kaya Gandini and Lutsangani Community Forest where the line was shifted to cross the narrowest part of the forest already disturbed by the road construction that separates Kaya Gandini and the community Forest. Previously, the line cut along the full length of the community forest.
- vi. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic impact because of the original route and cumulative impacts to the Mteza community. The original route crossed the meandering Mteza (Cha Shimba) River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have been a significant impact to the community.
Therefore, to remedy this KETRACO technical team moved the route southward off the **parent route by ...km. This reduced the river crossings from three to one.** The remaining crossing was shifted to the narrowest part of the river to reduce to its footprint to the minimum

1.6 Scope of (Addendum) Study

The purpose of the study was to update an existing ESIA report undertaken in 2018 and approved on 13th June 2019 (Ref: NEMA/EIA/5/2/1552) due changes in site location for the substation and s re-alignment of the transmission line.

As such the addendum updates the following chapters of the original ESIA report which also forms the Terms of reference for the study: -

- Baseline Conditions:

- Environmental setting (climate, topography, geology, hydrology, ecology, water resources, sensitive areas etc.),
- Socio-economic activities in the surrounding areas (land use, human settlements, economic activities, institutional aspects, water demand and use, health and safety, public amenities, etc.),
- Infrastructural issues (roads, water supplies, drainage systems, power supplies, etc.).

Legal and policy framework:

- Focusing on the relevant national environmental laws, regulations and by-laws and other laws and policies focusing on allied activities relative to the project in question.

Interactive approach was adopted for the immediate neighbourhood in discussing relevant issues including among others:

- Land use aspects,
- Neighbourhood issues,
- Project acceptability,
- Social, cultural, and economic aspects,

Environmental impacts:

- Physical impacts,
- Biological impacts,
- Legal Compliance.

1.7 ESIA Team Members

The ESIA study was conducted by the following experts and contributors

i.	Richard R. Godana	Lead Expert
ii.	Clifford Siocha	Associate Expert
iii.	Ahmed Sheikh	Socio-economist
iv.	Naomi Cheruto	Socio-economist
v.	Samuel Kirera	Land Economist
vi.	Charles Kariuki	Land Economist
vii.	Douglas Muthua	Land Surveyor
viii.	Michael Otieno	Land Surveyor
ix.	Fawzia Barasa	Associate Expert

1.8 The study Approach and Methodology

The approach to this exercise was structured to cover the requirements under the EMCA, 2015 as well as the Environmental Management and Coordination (Environmental Impact Assessment and Audit) Regulations, 2003 Legal Notice No.101. It involved largely an understanding of the project background, the preliminary designs, and the implementation plan as well as decommissioning plan. In addition, baseline information was obtained through physical investigation of the site and the surrounding areas, desktop studies, public consultations with members of the community in the project areas, survey, photography, and discussions with key personnel in KETRACO.

The key activities undertaken during the assessment included the following:

- Consultations with the key project stakeholder including the project proponent, community members, representatives of ministry of interior and coordination of national government, opinion leaders, County departmental heads. The consultations were based on the proposed project, site planning and the project implementation plan.
- Physical inspections of the proposed project area, which included observation of available landmarks, photography, and interviews with the residents.
- Evaluation of the activities around the project site and the environmental setting of the wider area through physical observations and literature review.
- Review of available project documents.
- Report writing, review and submissions.

The study team used the conventional approach for ESIA study as adopted in the original study but limited to the changes in project description on the substation and transmission line.

Step 2: Desk Top Study

The team reviewed the original ESIA study to the project; the Resettlement Action plan for the power supply component; the Mombasa SEZ Master Plan; other ESIA studies for different projects within the SEZ; respective county CIDPs and pertinent policies and legal instruments

Step 1: Site Assessment

A site assessment was conducted on 20th September and 3rd October 2021 for the substation site; and March 2022- 1st April 2022 for the transmission line to establish: -

- Land ownership, usage, and conflicts.
- Flora, fauna, and avifauna found on the site.
- The site landscapes.
- Surface water bodies within the neighbourhood of the site.
- **The general environment and its' sensitive receptors found within the environs** of the site.
- Soil quality

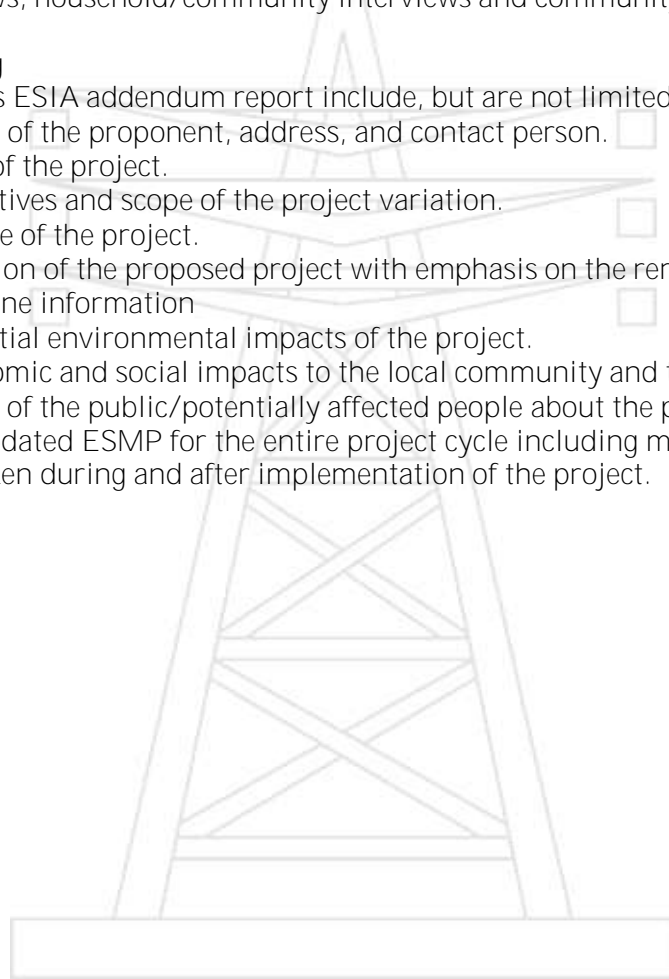
Step 4: Public Consultation

Detailed stakeholders' consultations for proposed project were undertaken from the 21st September 1st October 2021 for the substation and 28th February 2022- 11th March 2022 for the transmission line . These consultations were conducted in the form of Key Informant Interviews, household/community interviews and community public baraza.

Step 5: Reporting

Specific areas of this ESIA addendum report include, but are not limited to:

- Name of the proponent, address, and contact person. ☐
- Title of the project. ☐
- Objectives and scope of the project variation. ☐
- Nature of the project. ☐
- Location of the proposed project with emphasis on the rerouted sections. ☐
- Baseline information ☐
- Potential environmental impacts of the project.
- Economic and social impacts to the local community and the nation in general.
- Views of the public/potentially affected people about the project.
- An updated ESMP for the entire project cycle including mitigation measures to be taken during and after implementation of the project.



2 CHAPTER TWO: PROJECT DESCRIPTION UPDATE

2.1 Introduction

This chapter gives a description of the changes to site locations for the substation and the transmission line.

The general description on basic design for the 220kV transmission line, substation and 33kV distribution line; the construction method and the project cost have not been varied as presented in the original ESIA report.

2.2 The Mariakani DongoKundu Transmission Line

The subproject will involve construction of a 51-km long 220kV transmission line from 400/220/132kV Mariakani Substation (under construction) to the proposed Dongo Kundu 220/33kV substation within the Mombasa SEZ.

The line will traverse through three counties namely Kilifi, Kwale and Mombasa covering 51 km as per the varied route which is 2km less the original route. It will occupy a wayleave corridor of 40m (20m on either side from the center of the TL) which translates to 504 acres of wayleave (204 ha ,2.04 km²). With the SEZ, the Special Economic Zone Authority has set aside 6.3 acres (2.5 ha) for the substation.

2.2.1 Justification and details on route variations

2.2.1.1. *Mariakani substation to MDK 4 route variation*

The technical orientation of the transmission line as proposed in the original route was found **not feasible considering the current substation layout and positioning the Transmission Line's** gantry with the substation.

The transmission line is meant to transmit power from the Mariakani substation (which is currently under implementation) to the proposed Dongo Kundu substation. With this background, the orientation of the take-off from the substation is from a pre-determined gantry and at an angle that satisfies the electrical engineering standards on power transmission.

As per the original (as proposed under parent ESIA), the line approached the substation at almost a right angle. To rectify this a multidisciplinary team settled for a varied route. The initial route left the substation from the west while the current route leaves the substation from the southeast direction from the gantry point at Mariakani Substation. The longest offset between the old and new route is approximately 1.5km within Mariakani location (Kilifi County) The new route from the substation at MDK 1 (*GPS UTM 545951 9580344*) , runs parallel to the existing Mariakani- Rabai line route for 0.8 km to MDK 2 (*GPS UTM 546329 9579652*) then takes a turn to the southeast direction, crossing the Mombasa Nairobi Highway then into Chilumani B village, Kalalani Location in Kwale County. The varied route rejoins the original route at MDK 5 (*GPS UTM 546139 9576211*).

Within Chilumani B village it crosses an elevated point of the Standard Gauge Railway (SGR) line at almost 90 degrees GPS Coordinates UTM 546298 9575649.

The total variation of route between MDK 1 and MDK 5 is approximately 3.4km.

The maps below show the changes on the route and new orientation at the Mariakani substation.



Figure 1: A view of TL route variation in Mariakani

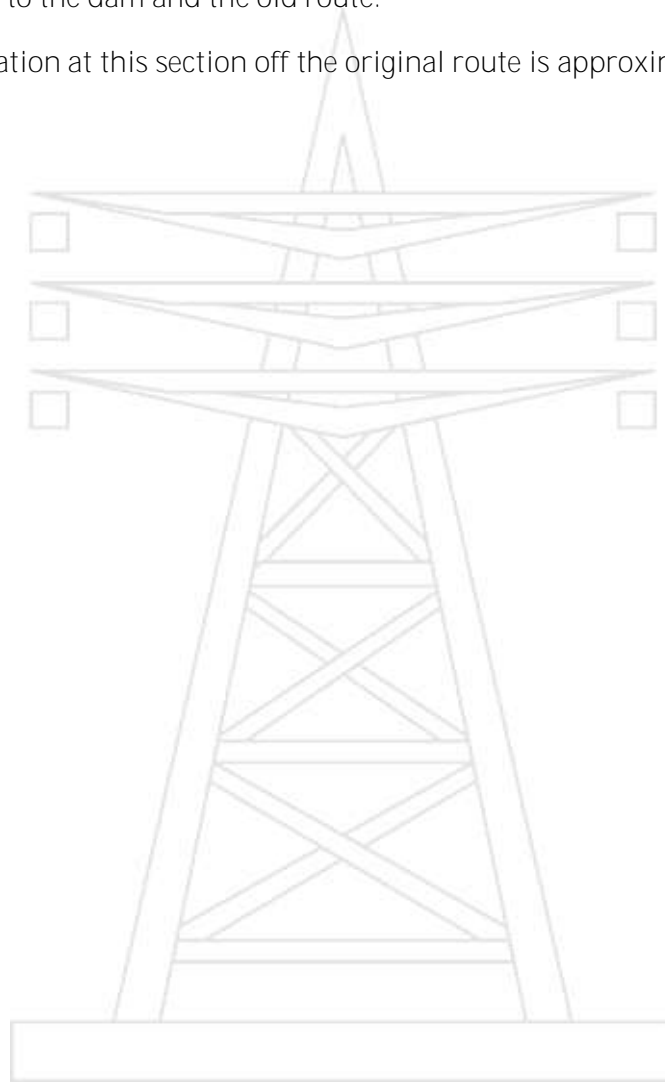
2.2.1.2. Mwache Dam Route Variation

Mwache Dam is a vital project to eradicate the problem of water shortage in the counties of Kwale, Mombasa, and Kilifi counties.

10km of the original route for the line runs into Mwache Dam site and to ensure a clear spatial differentiation for the two projects, a route variation for the transmission line was undertaken for distance of approximately 14km by introduction of extra angle towers (MDK 10 and 11 in Bofu location) into the line and deviating the line by 1km to 2km off the westward of the old route to pave way for the dam project. The nearest point of the new proposed route to the boundary of Mwache Dam is approximately 298 m.

The map below shows the route variation in at Mwache dam (from angle points MDK 7 to MDK 12) in relation to the dam and the old route.

The total route deviation at this section off the original route is approximately 1.5km.



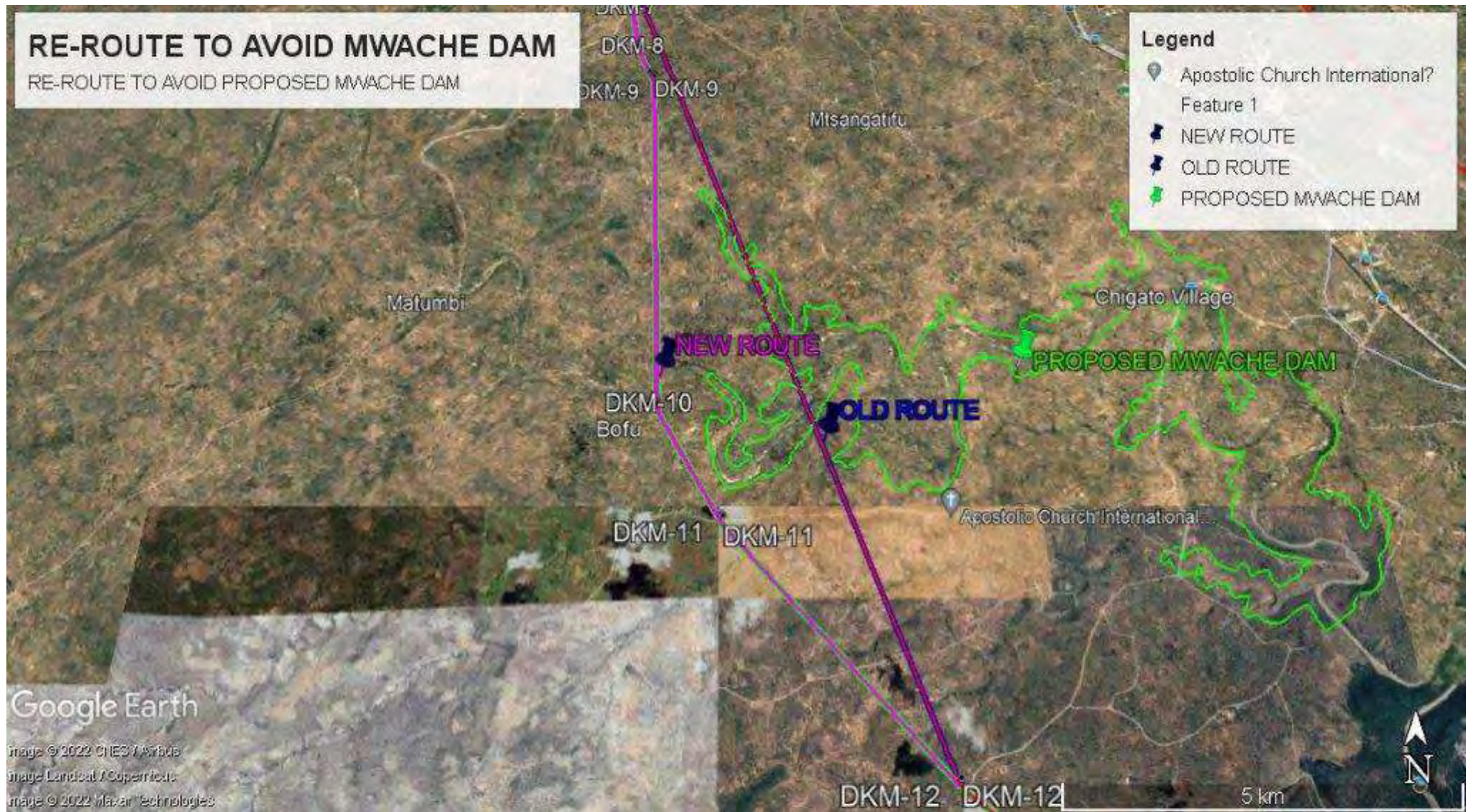


Figure 2: A view of the TL route variation to pave way for the propped Mwache Dam

2.2.1.1. *Kaya Gandini and River Mteza (Cha Shimba) River Crossings*

The Kaya Gandini is gazetted monument and protected under National Museums of Kenya. The site is also a UNESCO recognized, hence earning an international repute. The Kaya is a collection of totemic trees and shrines of cultural and heritage significance to the local communities.

The initial route was not traversing through the Kaya. Nonetheless, a small route variation was affected by the introduction of a new angle point (MDK 14) that reduce the angle of the line after crossing the road so as reduced loss of indigenous trees off the Kaya by cutting through a degraded portion of the vegetated area.

The new route is now 30m away from the boundary of the Kaya from centreline (i.e. the RoW is 10 m between the boundary of the Kaya).



Figure 3: Outer boundary Kaya Gandini overlooking the road (to Gandini Town from Lutsangani)

The map below shows the slight changes effected on the route.

Line route variation in Mteza village (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project by the original route. Additionally, a potential cumulative impact to the Mteza community was avoided since the existing Rabai Galu line cuts through the same area.

The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. The original route required a wayleave of 12 acres from the plain which would have a been a significant impact to the community.

Therefore, to remedy this KETRACO's technical team moved the route to the south west by introducing three angles points MDK 14 outside Kaya Gandaini and MDK 18 and 19 which are approximately 2km-3km off MDK 17 as shown the map below. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce to its footprint to the minimum, translating to a wayleave requirement of 1.1 acres.

The route was varied the route to the southwest reducing the river crossings to one hence avoiding multiple crossings on the river and flood plains.

The total length of route varied on this section of the route is approximately 9.6km long.

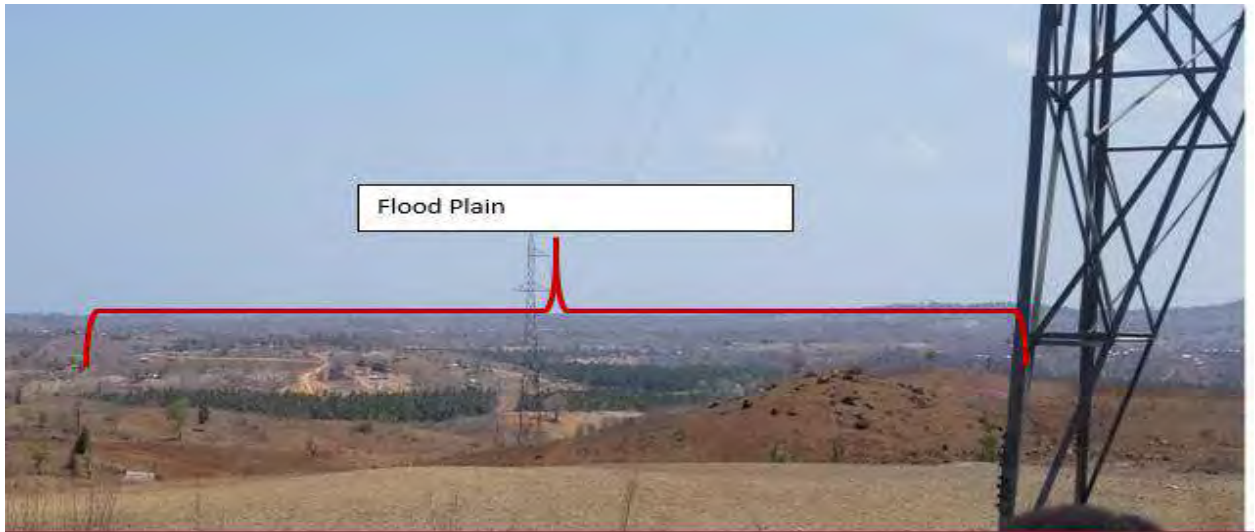


Figure 4a: The Mteza Flood plain as currently cut through by the Rabai Galu TL



Figure 5: An elevated view of the River Mteza and its flood plain

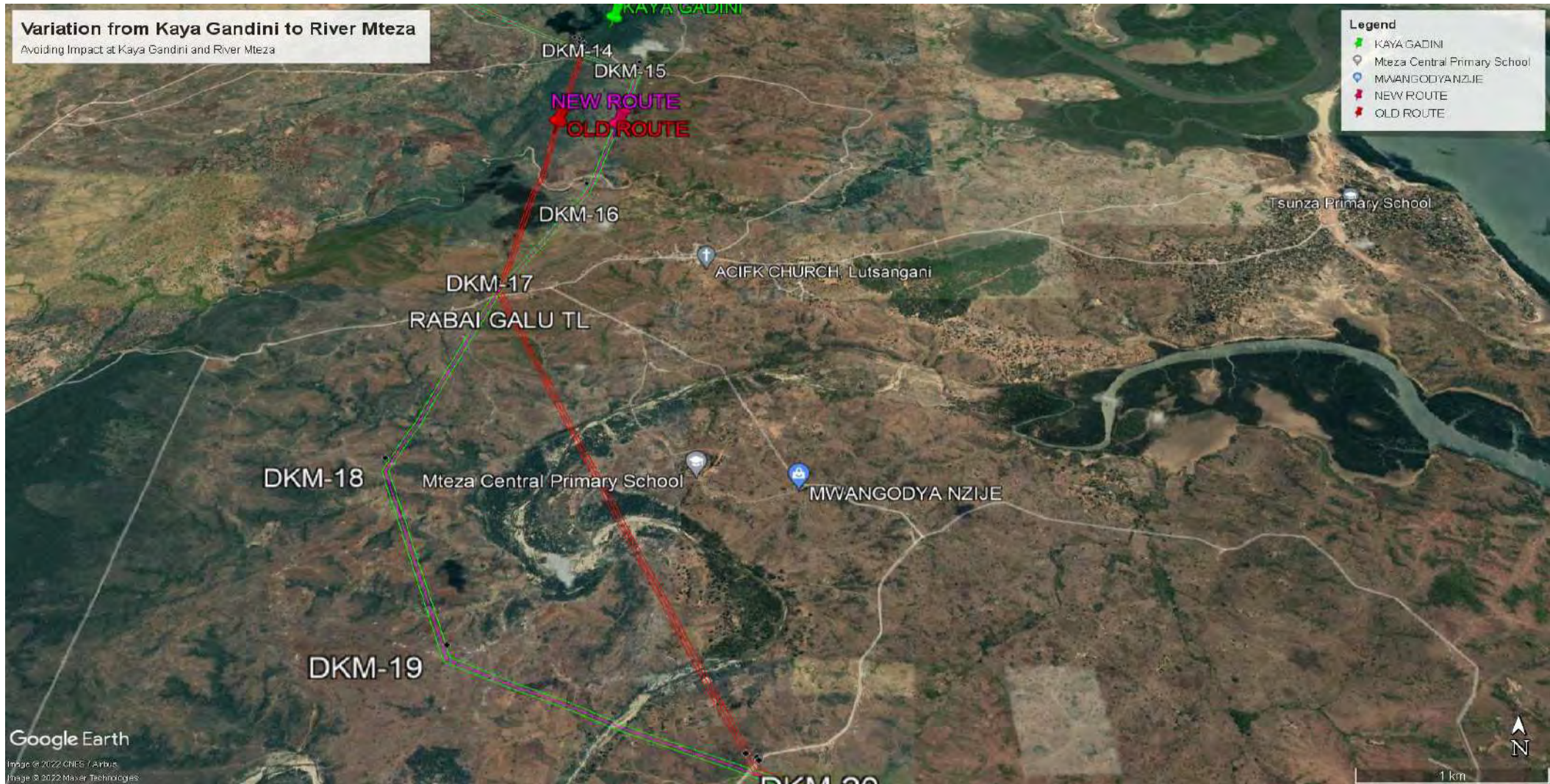


Figure 6: Route variation between Gandini and R. Mteza

2.2.1.2. Dongo Kundu Substation Transmission Line entrance

The change in location for the substation site from Mwangala area to Tembo (both within the Mombasa SEZ) necessitated the change in the transmission line route to orient it with new substation site. The map below depicts the change made to the route in relation with new site for the substation.

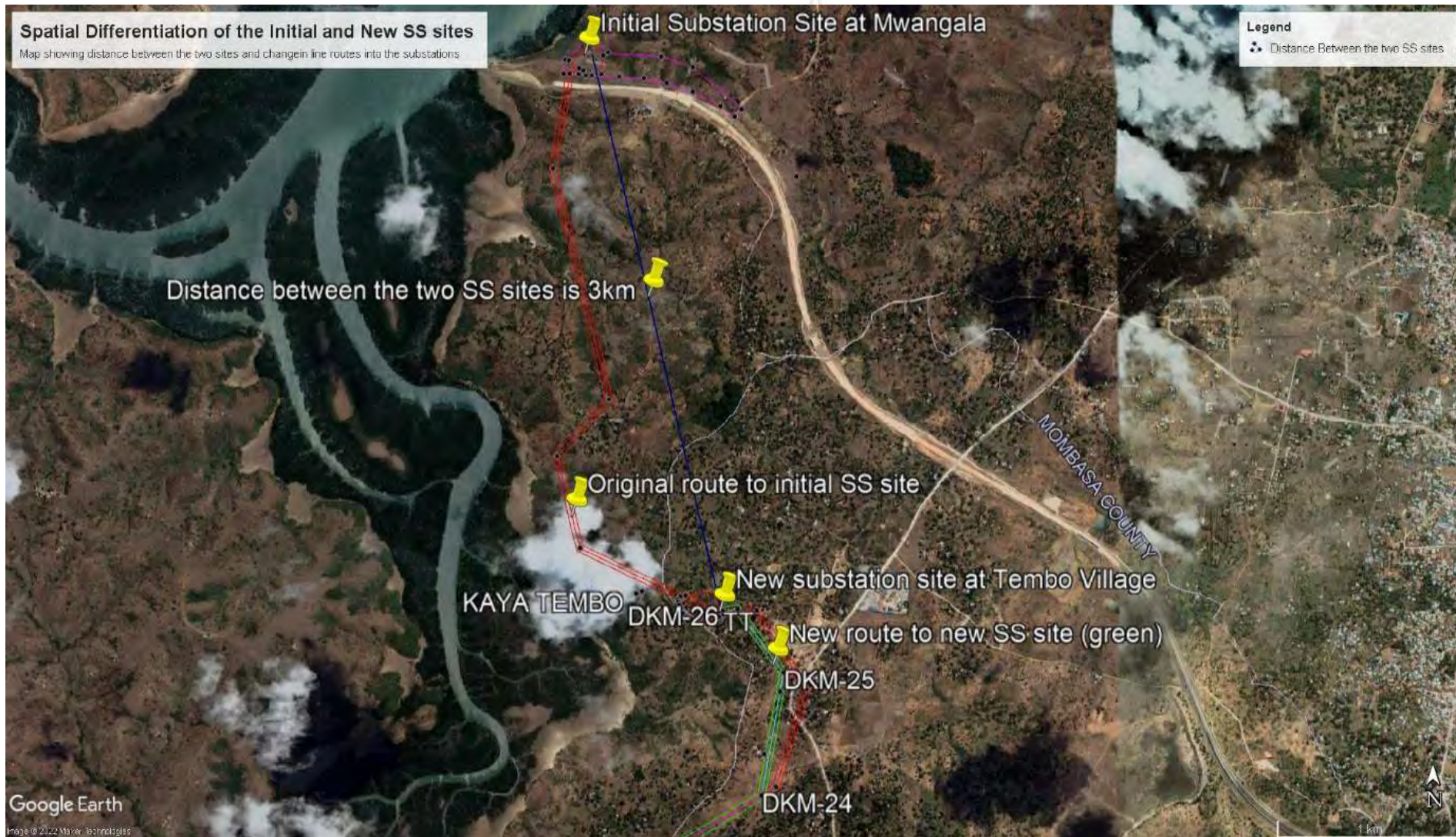


Figure 7: Spatial differentiation for the initial and new SS sites in DongoKundu

2.3 Dongo Kundu Substation

Dongo Kundu area is in Tembo village, Mbuta location (former Mtongwe Location), Likoni Sub-County, Mombasa County. It is located at the Border of Mombasa County within 1.2 km off the second last bridge at Mrongo Dongi off the Mombasa Southern Bypass. The new substation site will still be within the Mombasa SEZ complex on a land owned by the Special Economic Zone Authority (SEZA).

The new substation site, compared to the former site, is on a relatively flat area with an almost level gradient suitable for setting up a substation.

The corner GPS coordinates for its location are and location map is as shown in the table and image below respectively: -

Table 2-1: Corner GPS Coordinates

Northings	Eastings
509776	9695412
590927	959550
591126	9595328
590976	9595192

Coordinates: UTM ARC 1960 37S

2.3.1. Justification for change of substations site

The site proposed in the parent ESIA report is also located within the Mombasa Special Economic Zone on a site that with slopping gradient overlooking the ocean near Mwangala Primary School. Further technical studies for the site proved it unsuitable for the substation site.

KETRACO made a request to the SEZA for a new site for the substation on 12th July 2021 (see attached letter in Annex 4) Technical teams from KETRACO and SEZA assessed the Mombasa SEZ masterplan in relation to the site variation request and selected the new proposed site for substation.

The new site has a gentle gradient and easily accessible and hence found more suitable for the sub-project. The selection of the site does not interfere with the Mombasa SEZ masterplan

3 CHAPTER THREE: ENVIRONMENTAL AND SOCIO-ECONOMIC BASELINE INFORMATION

3.1 Introduction

This chapter gives the general information on the environmental, socio-economic, bio-physical, and infrastructural information that has a bearing on the development of the proposed locational variations of the proposed Mariakani - Dongo Kundu Transmission line and associated substation. The chapter provides description of the proposed route and substation site variation in terms of:

- The physical environment: its location, size, physiographic and natural conditions
- The socio-economic environment: demographic profiles as well as the administrative units. In addition, it provides information on infrastructure and access; land and land use; community organizations/non-state actors; crop, livestock, and fish production; forestry, environment, and climate change; mining; tourism; employment and other sources of income; water and sanitation; health access and nutrition, education and literacy among others. The biological environment/Ecological resources: the flora and fauna diversity in the area, presence of endangered species, sensitive habitats, wildlife and their dispersal areas.
- The cultural aspect of the communities in the area.

3.2 The Mariakani – DongoKundu Transmission Line

This section of this chapter will address mainly key changes in baseline because of the of the line rerouting undertaken. The physical environment for the line remains highly similar as indicated in the original ESIA report.

Nonetheless, the report has addressed the key physical environment its confluence with the project especially in sections of the route that have been varied and a few others of concern

The section also addresses the biological environment in light with the line and the proposed variation

Finally, the section presents the current outlook socio-economic and cultural environment for the entire line as an update to the initial outlook undertaken in 2018.

3.2.1 The physical environment

3.2.1.1 Administrative Units

There have been changes in administrative units traversed by the line due to setting on new administrative boundaries for ease of local governance. This section therefore presents the current administrative units affected by the project as per the current route. Generally, the route traverses through the following villages:-

Table 2: Villages traversed by the new route

Villages	Sublocation/ Location	Tower Locations	Sub-county	County
Shangiya	Mariakani	MDK 1-4	Kaloleni	Kilifi
Chilumani	Kalalani/ Mwavumbo	MDK5- 7	Samburu (new subcounty)	Kwale
Mnazi Mmoja	Kalalani/ Mwavumbo		Samburu (new subcounty)	Kwale
Mwanda B	Kalalani/ Mwavumbo		Samburu (new subcounty)	Kwale
Mwanda D	Kalalani/ Mwavumbo		Samburu (new subcounty)	Kwale
DzomboA	Kalalani/ Mwavumbo		Samburu (new subcounty)	Kwale

Villages	Sublocation/ Location	Tower Locations	Sub-county	County
Dzombo D	Kalalani/ Mwavumbo		Samburu (new subcounty)	Kwale
Nihutu	Mwatate	MDK 8-9	Samburu (new subcounty)	Kwale
Pemba	Mwatate		Samburu (new subcounty)	Kwale
Bofu B/ Ngomeni	Bofu s.location/ Mtaa Location		Samburu (new subcounty)	Kwale
Gona	Bofu s.location/ Mtaa Location	MDK 10-13	Samburu (new subcounty)	Kwale
Vitangani	Bofu s.location/ Mtaa Location		Samburu (new subcounty)	Kwale
Kitundani	Bofu s.location/ Mtaa Location		Samburu (new subcounty)	Kwale
Migunani	Gandini		Samburu (new subcounty)	Kwale
Chikole	Gandini	MDK 14-18	Kinango	Kwale
Chizini	Gandini		Kinango	Kwale
Magwagwaru	Gandini		Kinango	Kwale
Lutsangani	Gandini		Kinango	Kwale
Mteza	Gandini		Kinango	Kwale
Mitnagoni	Gandini		Kinango	Kwale
Mwannyundo	Gandini		Kinango	Kwale
Mbuguni	Mbuguni		Kinango	Kwale
Kiteje	Ngombeni	MDK 19-21	Kinango	Kwale
		MDK 22-26	Matuga	Kwale
Tembo	Mbuta (Former Mtongwe)	DK SS	Likoni	Mombasa

3.2.1.2 Topography

The topography along the route is rugged with descents and ascents along the longitudinal profile of the route. The highest point along the profile is at the Marikani substation (GPS UTM 545899 9580354) at 216 masl while the lowest is at MDK 22 which is 6masl and 200m away from the Indian Ocean at the Bombo Creek (GPS UTM 56041 9544487). The terrain along the route is a factor of hills and valleys criss-crossed by river channels, streams and water ways for storm water during the rainy season.

Further details on the topography of the remain as presented in the original ESIA report. Below is a google earth snapshot **on the route's elevation profile.**



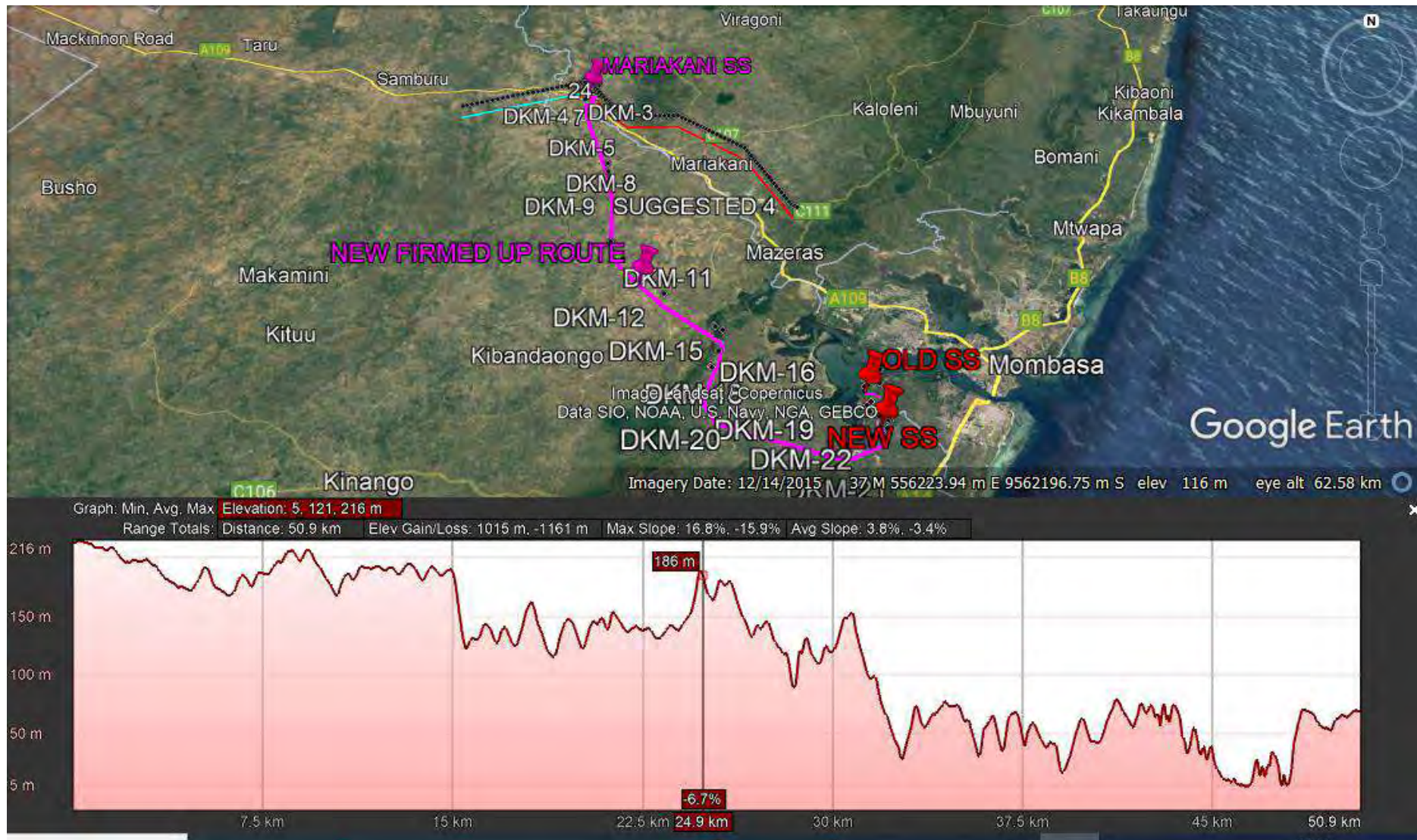


Figure 8: Line route's elevation profile

3.2.1.3 Hydrology

There have not been any major changes in the hydrology of the project area through the course of the route from the Mariakani Substation to the proposed DongoKundu Substation. In it is expansive from 1 to 2km radius along the route there has not been any major change that would warrant undertaking of full chemical analysis from the various rivers traversed by the project. Us such this addendum upholds the water analysis results undertaken in 2018 whose results and in-depth analysis formed part of the original ESIA report.

The transmission line crosses through 11 drainage channels (including major rivers, streams and small tributaries.) All these channels drain into the Indian ocean and at the time of this assessment most of them were dry, except for a few patches of stagnant water full of algae on major rivers, due to the prolonged drought in Kilifi and Kwale counties. Nonetheless, here the table below presents a list of rivers crossed by the transmission line route.

Table 3: Rivers crossed by the Transmission Line Route

River/ Channel		Location Along the Line	Location (GPS Coordinates, UTM)
River Chilumani	Tributary of River Mwangombe	Between MDK 5 and 6	545929 9576957
River Ngoni	Tributary of R. Mwache	Between MDK 9 and 10	548504 9565692
River Mwache	Major River		548631 956226
Three Small Dry Streams	Tributaries of River of R. Mnyenzi	Between MDK 11 and 12	N/A
River Mambome (Gandini)	Major River	Between MDK 12 and 13	554493 9555157
River Ndzovuni	N/A	Between MDK 16 and 17	555910 9551842
River Cha Shimba (Mteza)	Major River	Between MDK 19 and 20	557001 9546621
Small streams	Draining into Indian Ocean at the Bombo Creek	Between MDK 20 and 21	N/A



Figure 9: A riparian reserve in Kalalani used for farming



Figure 10: A section of river crossed by the TL in Chilumani, Kalalani location

3.2.1.4 Infrastructure and utilities

The route crosses or affects a few infrastructural installations and utilities such as roads pipelines, water tanks and a *water kiosk*. The table below lists the infrastructure of interest and a few affected utilities and their locations.

Table 4: Infrastructure and community utilities with RoW

Infrastructure/ Utility	GPS Coordinates	Tower Locations	Location
Mombasa Nairobi (A104) Highway	545894 9579251	Between MDK 2 and 3	Mariakani
Murram Road from Mariakani to Kinango	548002 9569564	Between MDK 6 and 7	Kalalani
Water Pipes (big and small)	-	Between MDK 5 and 7	Kalalani
Standard Gauge Railway Line	546298 9564957	Between MDK 5 and 6	Kalalani
Murram Road	552678 955655983	Between MDK 12 and 13	Mnyenzi
Murram Road (to Gandini)	556069 9553774	Between MDK 13 and 14	Gandini
Murram Road	555787 9550282	Between MDK 17 and 18	Gandini
Water Pipe		Between MDK 17 and 18	Gandini
Murram Road (to Kiteje)	557686 9546269	Between MDK 20 and 21	Mbuguni
Murram Road (to Likoni)	566820 9545849	Between MDK 24 and 25	Ngombeni (Kiteje)
Water Pipes		Between MDK 20 and 21	Mbuguni
Community Water Tank and water kiosk (Used by the Ngomeni community)	548631 9562013	Between MDK 10 and 11	Bofu (Mtaa)
Water Pan	549602 9560291	Between MDK 11 and 12	Bofu (Mtaa)



Figure 11: The SGR Crossing in Kalalani location (Mwanda)

3.2.1.5 Climate and prevailing environmental issues

All aspects on climate as described in the original ESIA report still hold. The prevailing environmental issues include prolonged drought, desertification due to deforestation (for charcoal production), sand harvesting in rivers and in Ngombeni area (close to the Indian Ocean)



Figure 12: The prevailing land degradation along the route

3.2.1.6 Land

There have been and still are developments on land and land tenure since the last baseline data was collected. Land adjudication was commenced in Kwale and the exercise is yet to be completed to give the community members freehold tenure rights to their parcels of land. In

most of the locations traversed formal subdivisions of land to the previously existing ranches with some households having title numbers, awaiting issuance of title deeds. Details on this are incorporated in the project RAP update.

3.2.2 The biological Environment

The biological baseline for the route at a cross-section of 1km off the line to the left and right remains the same as recorded in the original ESIA report.

3.2.3 The Socio-economic and Cultural Environments

The Ketraco team undertook a detailed socioeconomic and cultural assessment/baseline survey of the potentially affected population. The survey was undertaken with the involvement of the project affected persons (PAPs) in 2019 and updated in March 2022. The survey included: -

A description of the pre-project situation of the project affected persons (PAPs);

- Detailed household survey.
- Size and characteristics of affected population, social and economic patterns; property held and legal basis of ownership.
- A detailed description of the income streams of the PAPs that define their livelihood strategies.

Table 5: PAPs by Location

Location	Male	Female	Total	Percentage
Mariakani	437	464	901	25%
Kasemeni	513	564	1,077	29%
Mwatate	31	45	76	2%
Mtaa	244	239	483	13%
Gandini	540	577	1,117	31%
Mwavumbo				
Mbuguni				
Ngombeni				
Mtongwe				
Grand Total	1,765	1889	3,654	100%

3.2.3.1 Ethnic Presentation and Gender distribution

3.2.3.1.1 Distribution of Household Heads by Gender

A gender analysis was carried out on 75 household heads. There were 23 female and 52 male household heads. This translates to 69% of the Household Heads being male while the remainder 31% are female as shown in Figure 13. In terms of gender, the Household Heads surveyed defy the normal population pyramid where the number of males nearly equals that of females in the various age groups of any population. Part of the reason for this kind of

outlook relates to the fact that the one major population group in the Kilifi, Kwale and Mombasa Counties that host the project are the Miji Kenda who are patriarchal. Hence property in land and structures are socially defined to belong to male adults and thus considered the legal owners and not the women even if the resources/ affected assets have been sourced and secured by the women. Men were therefore registered for purposes of valuation and registering for compensation. There were calls for concerted efforts to ensure that women who own land and property are not side-lined in the process of paying out compensation and putting together sufficient monitoring processes to ensure that spouses of the affected asset owners participate in the compensation processes to enhance their socioeconomic safety. The inclusion of spouses in compensation for affected property is advocated for in the Land Act 2012 Section 107.

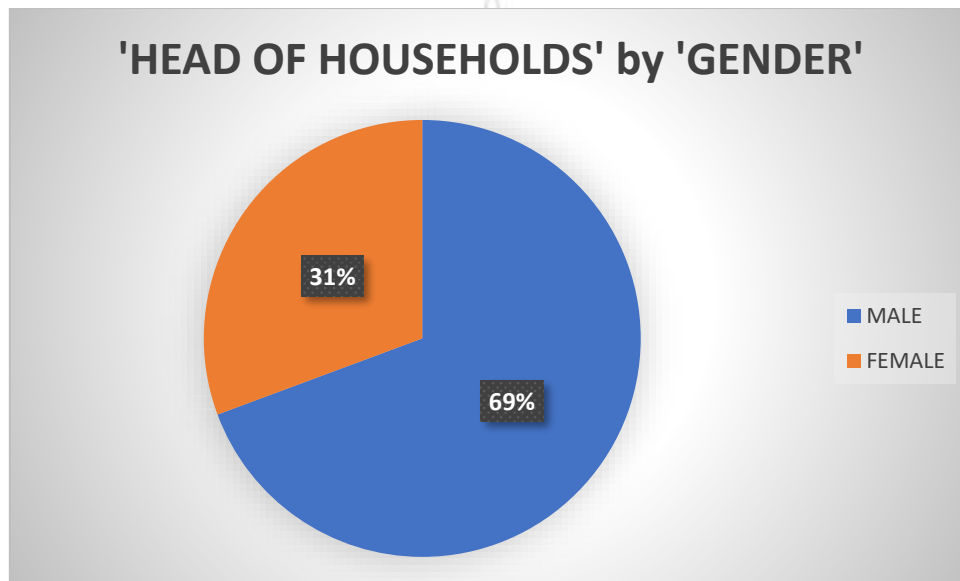


Figure 13: HH head by gender

3.2.3.2 Marital Status

A total of 75 household heads were evaluated under five classes as listed below:

- Married = 63
- Divorced = 0
- Separated = 2
- Single = 2
- Widowed = 8

The above distribution showed that 84% of them were married while 10% were widowed and 3% were single. A combined total of 2 % of the interviewed HH were separated. Refer to Figure 14. The implication of the marital status outlook of Household Heads is that most of them are in family set-ups and hence compensation should take into consideration this fact and provide support in such a way as not to separate family members or jeopardise their rights such as denying children the right to education by relocating a family to a location where there is no suitable school.

Equally, the destinations for resettlement should be screened for susceptibility to family disorganization or cultural pollution such as would come from resettling a rural family in an urban area.

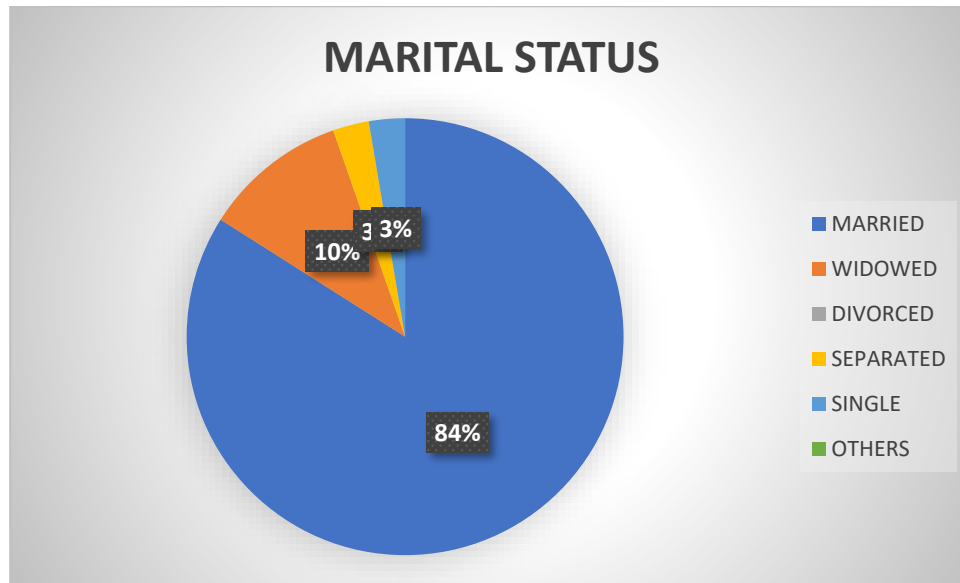
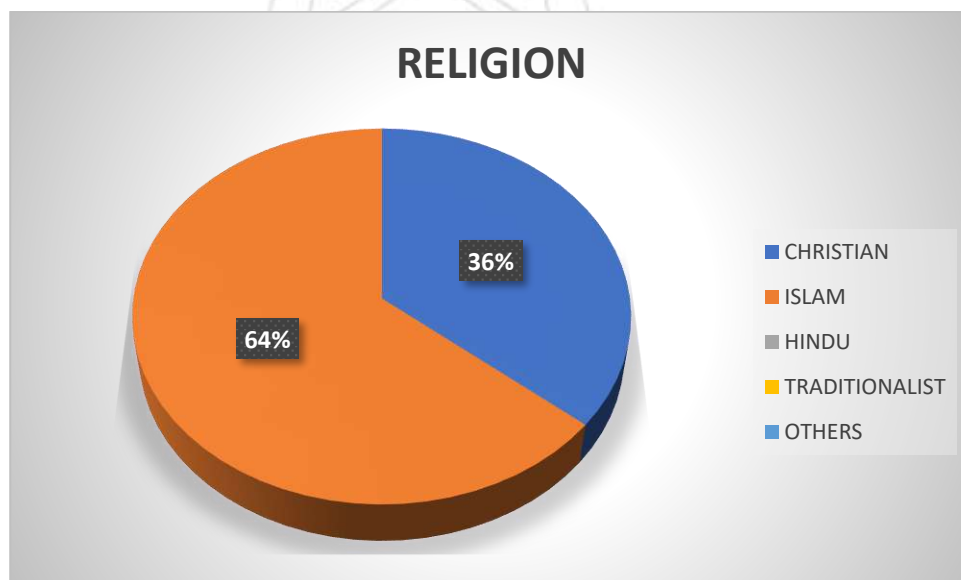


Figure 14: Respondents' marital status

3.2.3.3 Distribution of Household Heads by Religious Following

The 75 household heads who indicated their religious following exhibited 2 dominant religious groups as given below: Muslim-48 and Christian 27

The above data translated to 64% being Muslim followers while 36% being Christian followers. It will be important to this into consideration when aspects of resettlement are being discussed with the PAPs



3.2.3.4 Education

A majority of the household heads 57% did not attend school. Other educational levels are: primary 38% secondary 4%, Diploma 1%. However, a significant proportion of 57% have no formal education. Education distributions are shown in Figure 15.

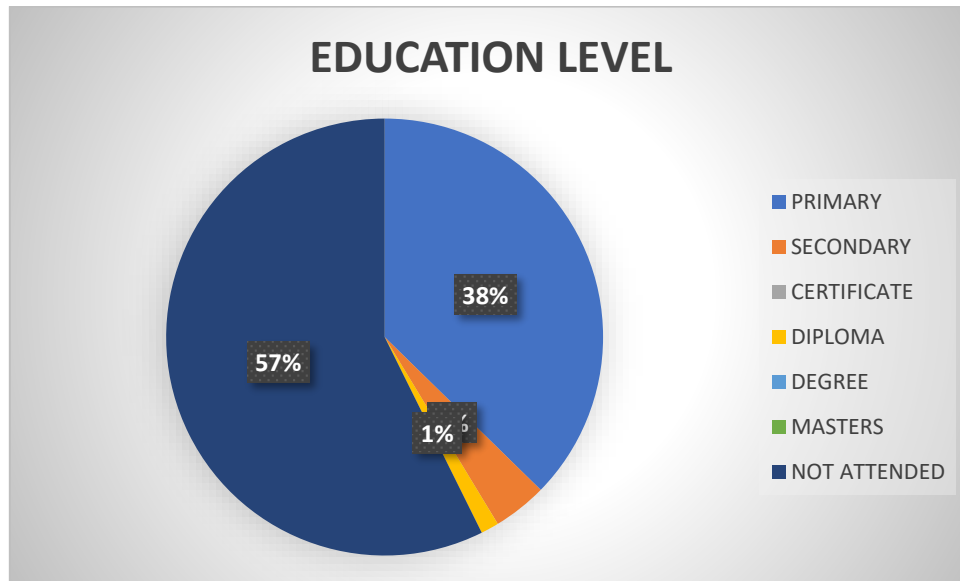


Figure 15: Education Level of Respondents

Education is an essential aspect; therefore, PAPs with limited ability to read and write might require special assistance from their representatives to uphold the process of free, prior and informed consultations, (meaningfully informed and consulted) in a timely manner and based on a pre-agreed plan, especially during the process of compensation and resettlement. Further, the implication from the education statistics suggests that the PAPs might only be able to provide semiskilled or unskilled labor force.

3.2.3.5 Household Composition

The total number of household members in the project affected households is 83 with some households having as many as 15 members in one homestead. Most PAHs, 76% have an average of 4 family members. Those aged between 18-25 years are only 5%. A small proportion, 4% of the affected persons, are above 80 years, as shown in Table 6 below.

Table 6: Household Size

Age category	Number	Percent (%)
Below 18	0	0
18-25 Years	4	5
26-35 Years	25	34
36-45 Years	13	17
46-65 Years	19	25
66-75 Years	11	15

Above 80	3	4
Total	75	

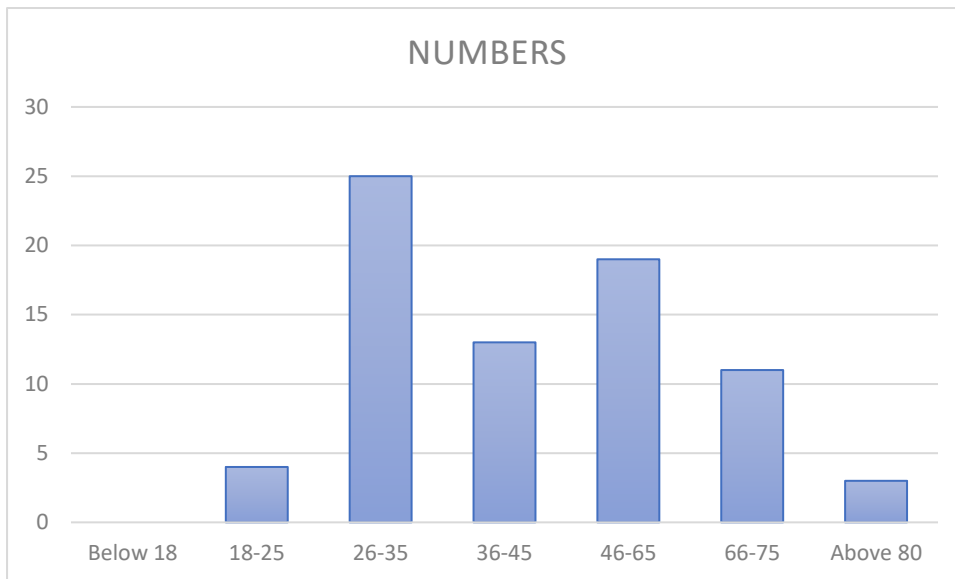


Figure 16: Household size and age distribution

The minimum and maximum age of a household head captured are 19 years and 70 years, respectively. No one below the age of 18 years was found to own property. PAPs between the age of 19-35 could be hired by the contractors during construction for hard and demanding work.

3.2.3.6 Economic Conditions and Source of Livelihood

3.2.3.6.1 Occupation

Only 4% of the household heads are employed. For those employed, main occupations are casual laborers 24%, self-employed/business 9%.

40% of household heads are doing farming as a source of livelihood. There is high unemployment rate in the project area. Therefore, the resettlement activities should prioritize employment creation for the unemployed PAPs as well as enhancing livelihood activities such as business activities and opportunities during the project implementation.

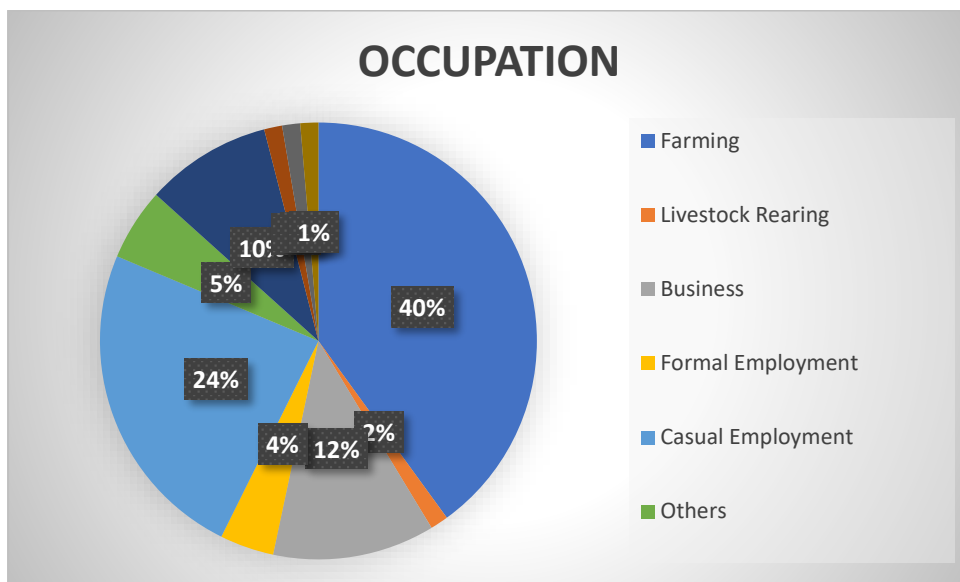


Figure 17: Respondent's occupations

3.2.3.6.2 Monthly Income of the Household Head

The incomes of 75 household heads were distributed into the following 7 categories.

Table 7: Monthly income distribution

- Less than 1000 =0
- 1,000 – 5,000 = 0
- 5,000 – 10,000 =54
- 10,000 – 20,000 =16
- 20,000-30,000 =3
- 30,000-40,000 =2
- Above 50,000 =0

The above numbers were translated into percentages presented in Figure 17. The results show that 72% either have an income of KShs 5,000-10,000. This suggests that majority of the HH are poor. Those earning between KShs 10,000 and KShs 20,000 form 21% of the population. 4% of the HH earn between KShs 20,000 and KShs 30,000 while only 3% earn between KShs 30,000 and KShs 40,000. See Figure 17 for Distribution of income among the Household Heads. Distribution of Household Heads According to Monthly Income

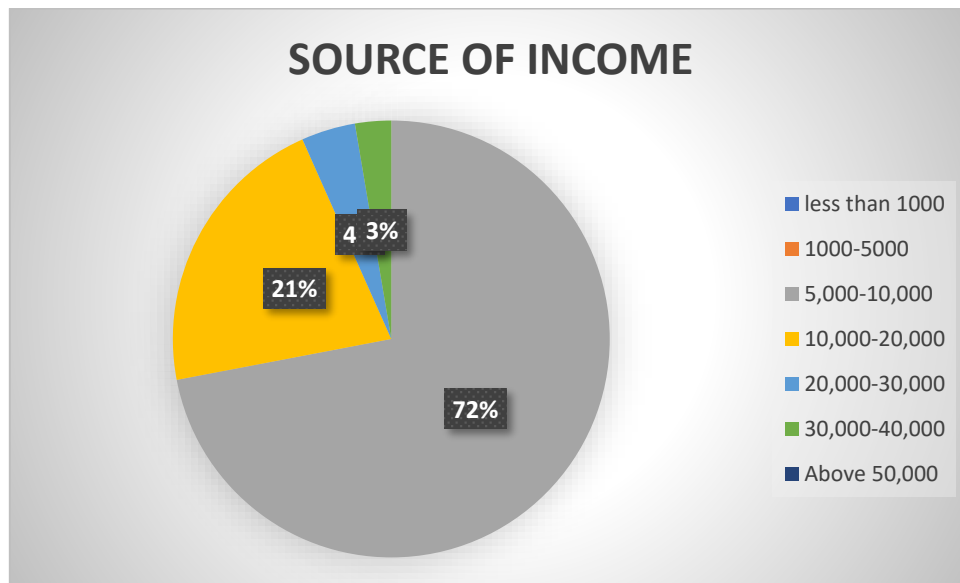


Figure 18: Monthly Income of the Households

3.2.3.6.3 Farming

Land is an essential factor of production, as such people utilize it for various socio-economic purposes including subsistence farming. In the project area, PAPs not only use land for settlement but also practice agriculture/farming (poultry, livestock farming and aquaculture). Agriculture is a significant source of livelihood for the PAPs along the transmission line. They mainly practice mixed farming. Common crops grown are maize, cashew nuts. Coconut tree plantations are also common. The PAPs also rear livestock such cows and goats. Interviewed households practice diverse farming as presented in Table 8 below

Table 8: Types of farming:

Farming	Number	Percentage
Farming	30	40%
Livestock Farming	1	1%
Business	9	12%
Formal employment	3	4%
Casual employment	18	24%
Farming and Livestock rearing	7	9%
Farming and Business	1	1%

For those that rear livestock is 1%. Only 40% are involved in farming. Farming being the major source of income.

In order to minimize impact on agriculture including loss of pasture, the RAP recommends that construction should be scheduled after crop harvesting (when farms are largely with no produce) and use of existing access roads or lanes. KETRACO should also ensure destroyed crops and beehives are recorded for compensation and where possible adequate spacing of pylons to avoid clearing the fields.

3.2.3.7 Ownership of Bank Account

The majority 64% did not have a bank account. Most of the household heads not having a bank account is a concern, mainly if compensation payments will be channelled into bank accounts. The nearest banks are in Kilifi, Mariakani and Mombasa town, which are relatively far from most sections of the proposed project corridor. It is therefore recommended that in the interim period, the PAPs without bank accounts be sensitized to open or the project proponent could partner with a local bank branch in Kilifi, Mariakani and Mombasa to provide field account opening services in each location where RAP meetings were held. This will facilitate and ensure PAPs open bank accounts prior to compensation.

3.2.3.8 Means of Communication and Transport

The primary mode of communication for the household heads according to responses received is the mobile phones 95%, while 5% would use other forms of communication such as letters. Mode of transport are Motorcycle/Bodaboda 49.9%, public bus/matatu 24.8%, Private car 1.6%, and on foot constituted 22.9%. Most of the household heads use motorcycle/bodaboda since they are usually common compared to other means of transport.

3.2.3.9 Sources of Energy

3.2.3.9.1 Access to Electricity

Most PAHs (99%) are not connected to electricity.

3.2.3.9.2 Source of Lighting

In terms of lighting up homes, most households, 61%, use solar energy, while 32% use paraffin tin lamps. Only 3% use electricity. Others are: 3%, Solar and tin lamp 1%, solar and torch 1%, as shown in Figure 18.

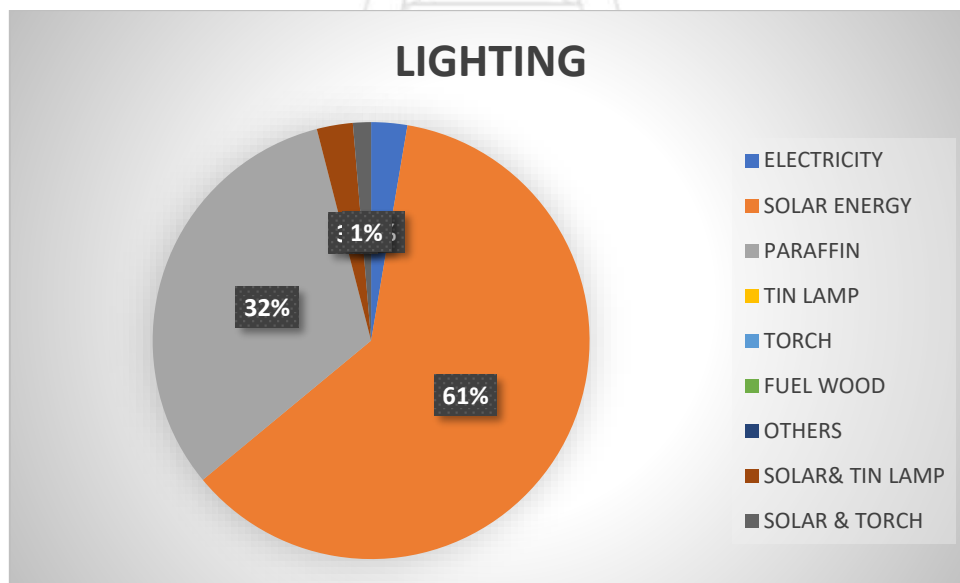


Figure 19: Source of Lighting

3.2.3.9.3 Energy Source for cooking

Most project affected households, 62% use firewood as their primary source of cooking energy. Charcoal at 3% while 31% used firewood and charcoal. Only 3% utilized electricity and firewood.

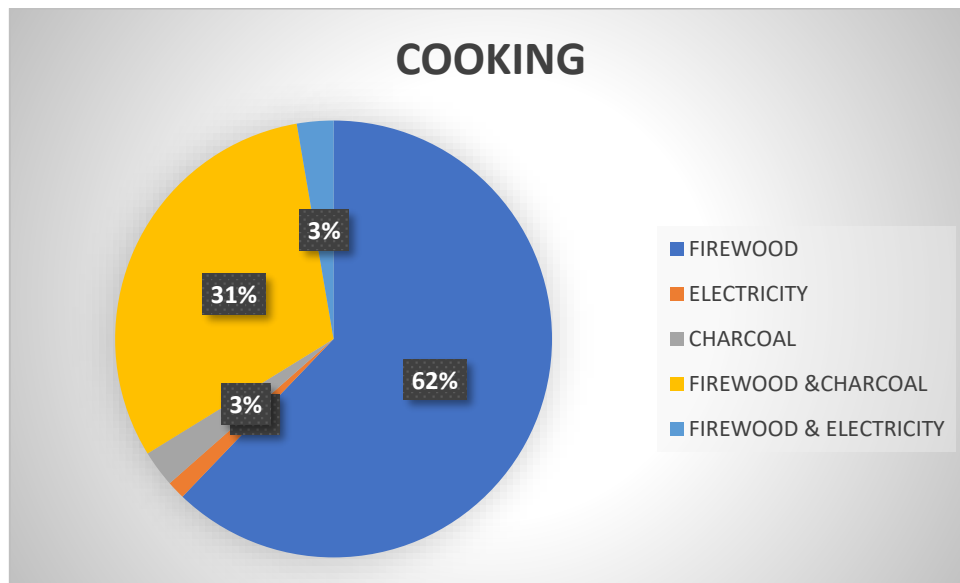


Figure 20: Energy source for cooking

3.2.3.10 Public Utilities/ Government Agencies/Companies Affected

Some of the public utilities affected include community water tanks, public taps/water pipes in Mtaa Locations. In total there are 2 public taps on the wayleave. Given the centrality of water to rural communities it is recommended that slight adjustments on positioning of pylons during construction could be done to avoid negative impact on water access. Table 4.12 show a matrix of public utility affected and their GPS locations

Table 9: Public Utilities in the Wayleave

Public Utility	Ownership	Location	GPS Coordinates
Community Water tank(Kiosk)	County	Mtaa	548631-956201

3.2.3.11 Vulnerable individuals and households

The vulnerable persons (Widowed, Disabled, and Elderly).

Table 10: Vulnerable PAPs

Category	Percentages %
Differently abled Person	28
Widowed	43
Older persons 70+	29
Orphans	0

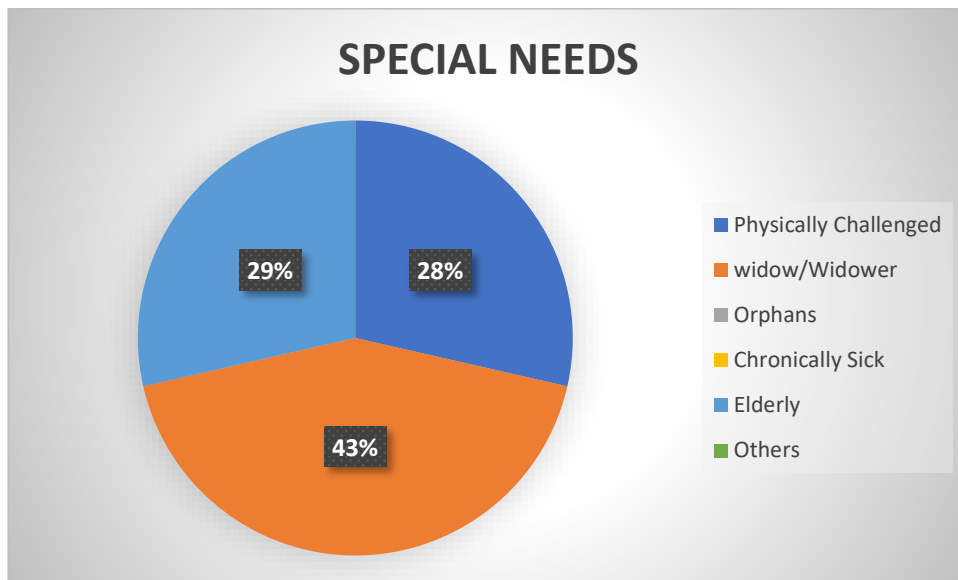


Figure 21: Distribution of special needs

A total of 4 PAPs have a disability. Of them, 2 are property owners, and 2 are members of their households.

The nature of disability is physical 4 (28). Overall, most of the disabled are male PAPs, which makes them vulnerable. Further, of the 4 disabled PAPs, they have not been registered with the National Council for Persons with Disability. A significant proportion of 4(28%) are not registered.

Along the project corridor, the category of the elderly is not receiving cash transfer for the elderly from the government. The RAP recommends that the project partners with and facilitates county staff to register vulnerable peoples at location levels to enable them access existing facilities and services.

3.2.3.12 Assistance for Women and Vulnerable individuals and households

This RAP has been sensitive to the special needs of women and other vulnerable individuals and households in the planning and implementation of resettlement and livelihood restoration. This is since men and women have different needs and opportunities for access to land, resources, employment, and markets.

Gender discrimination limits women's access to resources, opportunities, and public services necessary to improve the standard of living for themselves and their families. As a result, women are often the first to suffer when resettlement is planned or poorly executed. Women tend to rely more heavily than men do on informal support networks, such as the help of friends, neighbors, or relatives for childcare. Women with children also have less physical mobility to travel to find ways of earning a livelihood.

For these reasons, the compensation package offered to them can ensure improved access to productive assets. Women will be included in the administration of RAP committees to also participate in decision making. This allowed for special assistance to Vulnerable individuals and households in the form of separate and confidential consultation. It is expected to facilitate priority in access to all other mitigation and project development assistance.

3.3 The Dongo Kundu Substation

3.3.1 Physical environment

3.3.1.1 Physiographic and Natural Conditions

This section highlights the major physiographic and topographic features of the proposed Dongo Kundu substation area. It also covers the ecological and climatic conditions and their influence on the settlement patterns and economic life of the area residents.

3.3.1.2 Topography

The area has undulating topography with hills and valleys with altitude varying from Sea Level (0m) to approximately 80 a.s.l. The Mombasa SEZ 220/33 kV substation will be located 2km South of the Mombasa Southern Bypass Road.

The proposed area enjoys proximity to an expansive water mass as it borders the Exclusive Economic Zone of the Indian Ocean to the East.

3.3.1.3 Physical and Topographic features

The proposed Dongo Kundu substation is around 1km off the Indian Ocean Shoreline. It is located on a tableland that overlooks the ocean over a cliff that sharply descends into lagoons surrounded by thick canopy of mangroves and a sandy beach floor. The shoreline is covered with geologically sedimentary rocks of Jurassic to recent age. The topography has evolved because of the lowering of the sea level over time leading to severe erosion by the storm water draining into the sea.

The soil around Dongo Kundu area is composed of well drained to imperfectly drained, shallow to moderately deep, yellowish brown to very dark grey, firm to very firm clay on dissected parts (Cambisols). Notably however, the substation site has a well-drained sandy soil structure with a gradient befitting the proposed used.

3.3.1.4 Climatic Conditions

The proposed Dongo Kundu substation lies within the coastal strip in the hot tropical region where the climate is influenced by monsoon winds. The rainfall pattern is characterized by two distinct long and short seasons corresponding to changes in the monsoon winds. The long rains occur in April to June with an average of 1,040 mm and correspond to the Southeastern Monsoon winds. The short rains start towards the end of October lasting until December and correspond to the comparatively dry Northeastern Monsoons, averaging 240mm. The annual average rainfall for the county is 640mm.

The annual mean temperature in the area is 27.9°C with a minimum of 22.7°C and a maximum of 33.1°C. The hottest month is February with a maximum average of 33.1°C while the lowest temperature is in July with a minimum average of 22.7°C. Average humidity at noon is about 65 per cent.

3.3.1.5 Infrastructure Development

- ✓ Roads, Rail Network, Ports and Airports, Airstrips and Jetties Roads

Main classified roads include Mombasa-Nairobi highway, Mombasa - Malindi road and Likoni - Lunga Lunga Road connecting Kenya and Tanzania. While the major roads are in fair condition, access roads which are earth roads found within the residential and industrial areas are in a below standards state as seen in the figure below:



Figure 22: Picture of a road found in the area

The proposed site has low voltage infrastructure passing by. However, due to power instability not many residents are connected to electricity. The proposed Dongo Kundu 220/33KV substation will serve to boost power stability and reliability in the area.



Figure 23: KPLC LV lines on the site's proximity

3.3.2 Housing

Most of the houses found in the area are temporarily built.

3.3.3 Land and Land Use

Land ownership for agricultural and Livestock activities remains a thorny issue in the County as most of the residents do not legally own land and the ones they cultivate on are owned by absentee landlords. By July 2013, only 30 per cent of the residents had title deeds to their land. There has been an increase in squatters in the area earmarked for the SEZ. This is speculative

in nature and is the main problem anticipated in the project area. Issuance of title deeds in the area has however, been increased in the recent past.

There is a tag of war between KPA & PAPs who jointly claim ownership of SEZ land.

Currently, the site proposed to host the substation is primarily used for livestock grazing and fruits farming, cashew nuts and a few other trees.

3.3.4 Industry and Trade

The planned set up of the Special Economic Zone at Dongo Kundu is expected to present opportunities for investment in value addition in industrial zone. The development of the SEZ will include establishment of Free Trade Zone, Free port, logistics hub and an industrial zone. The proposed project will be composed of a TL from Mariakani-Dongo Kundu and a substation in Dongo Kundu which will serve to ensure adequate and reliable electricity is available in the area thereby effectively powering the various industries expected to crop up.

3.3.5 Water and Sanitation

The Dongo Kundu area locals are predominantly served by the Kaya Tembo water source that is found within Dongo Kundu (SEZ). The water source is of good quality as characterized by the presence of good water quality indicators such as frogs and caddisflies. Figure 4 below shows the Kaya Tembo water source.



Figure 24: Image of the Kaya Tembo, the main water source for the locals

Furthermore, the proposed Mwache Dam construction in the area is expected to further increase water supply to the residents.

3.3.6 Administrative Units

Administratively, the proposed Dongo Kundu substation is located in Likoni sub county, Mbuta Location (Formerly Mtongwe Location).

3.3.7 Biological Environment

3.3.7.1 Ecological Conditions

The proposed Dongo Kundu substation site is onshore hence exhibits typical offshore terrestrial ecosystem functions. Its ecosystem is characterized by diverse species of flora and a few insects and birds.

The trees are of different use to the community and the prevailing ecosystem.

Among the different fruit tree species observed to grow on the proposed site include:

- *Cocos nucifera* Arecales- Coconut trees (Minazi)
- *Adansonia digitata* L.- Baobab trees (Mabuyu)
- *Anacardium occidentale*- Cashew nut trees (Mkorosho)
- *Phoenix dactylifera*- Date trees (Miti ya tarehe)
- *Mangifera indica*- Mango trees (Miembe)

Other trees observed included:

- *Azadirachta indica*- Neem Tree (Mwarubaini)
- *Eucalyptus saligna*- Sydney blue gum (Mtimbao)
- *Acacia drepanolobium* - Whistling thorn (Mbalibali)
- *Acacia gerrardii* (Mtugo)
- *Cordia sinensis* (Mkamasi)

The ecological conditions are evolving fast due to numerous developments in the area, including the ongoing construction of the Mombasa City Southern by-pass (Dongo-Kundu) which is approximately 1.2km from the proposed Dongo Kundu site and the expected construction of Mwache Dam.

The figure below indicates some of the vegetation on site.



Figure 25: Vegetation within the substation site

3.3.7.2 Forestry

The main forest types in Mombasa County are mangrove forests covering a total area of 300 ha. The expansive Dongo Kundu is a catchment area that is continuously being degraded. However, no other major efforts have been implemented in the efforts to ensure the protection of this water catchment area.

The growing of fruit trees for improved nutrition both for domestic use and surplus for markets is evident in the project area. Among the different fruit tree species observed to grow on the proposed site include coconut trees (*Minazi*), Baobab trees (*Mabuyu*), Cashew nut trees (*Mkorosho*), Date trees (*Miti ya tarehe*) and Mango trees (*Miembe*). The Coconut Development Authority has been established with a view of promoting the economical use of the coconut trees in the coastal region. The Authority has introduced fast maturing coconut varieties with aim of making the crop more economically viable.

There are several species of indigenous trees are believed to have medicinal properties in the area. Most of these species are found in forests that are traditionally believed to be sacred, commonly referred to as kaya forests. The Kaya Tembo is an example of where such medicinal trees are found.

3.3.7.3 Environment and Climate Change

The general increase in population of Dongo Kudu and the anticipated influx of people into the area with the expected development in the SEZ is expected to have an impact on the environment. While the area has numerous natural resources, which have greatly influenced the settlement patterns and way of life of most of the residents, environmental degradation has greatly undermined the capacity of these resources to support the ever-increasing population of the county. Human activity has led to degradation of the ocean ecosystems resulting in diminished land productivity, low quantity, and quality of fish in our waters and compromised the air quality.

The county at large has experienced several effects of climate change. Rainfall patterns have generally changed and are unpredictable. This has led to frequent flooding, high incidence of crop failure and on average temperatures rise above normal in some instances; a situation not witnessed before.

3.3.8 Demographic Features

Population distribution and settlement patterns in an area is influenced by proximity to vital social and physical infrastructure networks such as roads, housing, water, and electricity. Other factors that influence settlement patterns include accessibility to employment opportunities and security. The area is close to the Indian Ocean, and it is anticipated that there will be a population outburst due to the planned developments in the SEZ in the area. Physical infrastructure will improve as already being seen with the ongoing construction of the Mombasa City Southern by-pass (Dongo-Kundu) for instance resulting to an influx of people in the area seeking opportunities.

3.3.8.1 Cultural conditions

Kaya Tembo is significant community resource. The Kaya is a source of water for the community and is equally of cultural-heritage significance. It has a collection of various indigenous trees of over 100 years old.

The Kaya lies 200m Southeast of the proposed Dongo Kundu substation site, within the **expansive Mombasa Special Economic Zone**. Through a stakeholder's consultation meeting with the local community held on 28th September 2021, the community

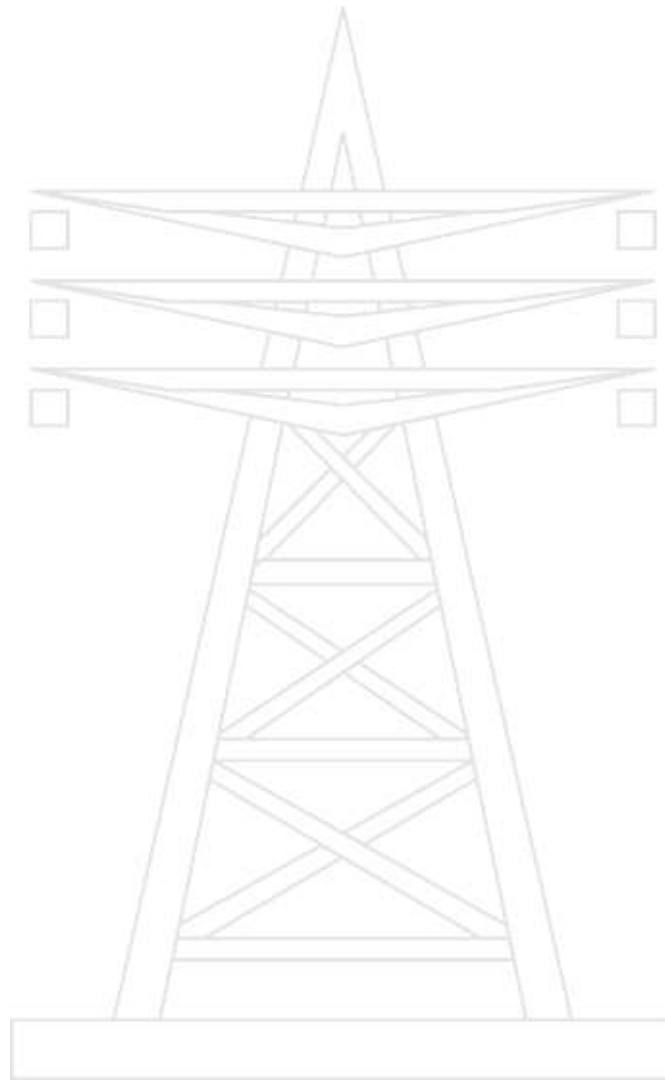


Figure 26: Map indicating distance from the SS site to Kaya Tembo

4 CHAPTER FOUR: POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK

4.1 Introduction

The Policy and Legal Framework remains unchanged from the parent ESIA report.



5 CHAPTER FIVE: STAKEHOLDERS ENGAGEMENT AND PUBLIC PARTICIPATION

5.1 Introduction

The Kenyan constitution of 2010 (Section 10, 118, 124, 201, 221) gives powers of self-governance to the people and enhance their participation in the exercise of powers of the state and making decisions affecting them. Additionally, EMCA 2015 calls for effective stakeholder participation and public consultation in the ESIA process. Public consultation and participation ensure that the views of the affected and interested parties are incorporated as early as possible in the project design and in effect minimize the potential unexpected opposition of the development project and potential adverse effects to the environment. It is also very beneficial in incorporating the views of the public into the design process for the adoption of the best workable models and systems since the local people know best what suits them.

5.2 Objectives for stakeholder engagement

- Create public awareness about the proposed project and proposed changes in route and substation site
- Seek public opinion and concerns relating to the project and more specifically problems they anticipate and ways of overcoming them
- Obtain professional opinion from sector heads including departmental heads and local administration
- Consultatively and in a participatory way identify potential positive and negative impacts of the project and seek remedial measures
- Sell the project to the public for their acceptance and ownership
- Improving transparency and accountability of decision making
- Obtaining local and traditional knowledge that may be useful to decision making including Indigenous Knowledge Systems (IKS)

In compliance with legal provisions above and considering the ESIA global best practice, as echoed in the JICA Environmental and Social Considerations, KETRACO (proponent) through a consultant (Panafcon Limited) undertook a rigorous stakeholder engagement and public participation exercise as shown in the Table 12 below: -

Table 11: Stakeholder engagement and participation as per the original project scope

Engagement	Dates	Stakeholders
Key stakeholders Meeting (county/ national government's interior coordination)	4 th July 2017 to 7 th July 2017	<ul style="list-style-type: none"> - County Commissioner of Mombasa - Mombasa County secretary- - Kilifi County Governor - Matuga Sub-county commissioner - Governor Kwale County - Deputy County commissioner Kaloleni subcounty - Deputy County commissioner Kaloleni subcounty - Deputy County commissioner Likoni subcounty - Chief, Mtongwe Location
		-
Key stakeholder (State departments and NGOs)	25 th July 2017	- KWS, Kwale (Nathan Gatundu)
	26 th July 2017	- KFS, Kwale (Ecosystem conservator)
	26 th July 2017	- County Forester, Kwale (Joseph Indu)
	26 th July 2017	- NMK, Ukunda, (Abdulraham Matano)
	26 th July 2017	- WWF, Ukunda (Elias Kimaru)
	26 th July 2017	- KWS, Kwale (research officer- Benard Ochieng)
	27 th July 2017	- KFS, Kilifi (Forest Officer, Virginia Kingóri)
	27 th July 2017	- Mombasa Ecosystem conservator (Albert Nyabuti)

Engagement	Dates	Stakeholders
	27 th July 2017	- Community Education and Extension Warden (F. Dermilla)
	23 rd November 2018	- Nature Kenya (Species and Sites Manager Paul Gaceru)
	29 th November 2018	- WWF (Peter Muigai)
Public Sensitization Meeting	12 th July 2017	- Mariakani Location (Kilifi County)– 85 participants
	13 th July 2017	- Mbunguni Location (Kwale County)– 307 participants
	13 th July 2017	- Ngómbeni Location (Kwale County)– 236 participants
	14 th July 2017	- Kasemeni Location (Kwale County)- 125 participants
	14 th July 2017	- Gandini Location (Kwale County)- 257 participants
	18 th July 2017	- Mwavumbo/Mwatate (Kwale County)- 183 participants
	20 th March 2018	- Mtongwe Location (Mombasa County)- 367 participants
Total for public sensitization meetings		1560 participants consulted
-		

Stakeholder Engagement at project route variation

In the spirit of involving the public and key stakeholders, and in view of the proposed variation to the transmission line and substation as described in Chapter 2 of this report, the proponent (KETRACO) undertook another stakeholder engagement exercise as indicated in the Table 13 below: -

Table 12: Stakeholder engagement and participation as per the varied project route

Date	subproject
20 th September to 3 rd October 2021	Dongo Kundu Substitution
28 th February to 12 th March 2022	Mariakani DongoKundu Line

5.3 Identification of stakeholders

Stakeholders identified involve those either directly or indirectly affected by the project; interested individuals or parties; and institutions that have a bearing in influencing the project due to their nature of operation and mandate.

The stakeholders were grouped into two main categories depending on their various needs, interest, and potential influence on the project. These included:

Primary Stakeholders-They are directly affected by the project. These largely included the communities living within the environs of the proposed site and were identified as Project Affected Persons (PAPs).

Secondary Stakeholders-The indirectly affected by the project but influence development through project implementation. These included: -

- o Relevant National Government Officials
- o Relevant County government officials in Mombasa County in charge of diverse sectors, which are likely to be impacted by the project
- o local policy makers and opinion leaders, local administration, local authorities, and civic leaders and any other Interested Parties

5.4 Consultations undertaken in 2018

In addition to the stakeholders involved and consulted in 2018 while undertaking the original ESIA , more stakeholders were identified and involved as outlined in Table 13 below

Table 13: Key stakeholders involved

No.	Name of stakeholder	Name of Respondent	Stakeholder interest/ relevance
1.	Mombasa County Commissioner	Gilbert Kitiyo	Monitoring the implementation of Governments programmes.
2.	Deputy County Commissioner- Likoni subcounty	Francis Kazungu	Monitoring the implementation of Governments programmes.
3.	Kenya Ports Authority- Principal Environmental Officer	Daniel Maina Githinji	Owners the land where the MSEZ sits
4.	Special Economic Zone Authority- Ag., Manager, Technical Services	Francis Gitau	Implementors of of the MSEZ project
5.	Nippon Koen (JICA Design Team for MSEZ)-Environmental	Harrison Odhiambo	Design consultants for the SEZ
6.	Coast Development Authority - Environmentalist/ Sociologist	- Simon Lokitar - Japheth Moroa - Fauzia Mohammed	To provide integrated development planning, coordination and implementation of projects and programmes within Coast Region, Southern Garissa and Kenya's Exclusive Economic Zone (EEZ).
7.	Directorate Energy and Climate change- Mombasa County	- Abdul (Director Climate change) - John Mating'i - Victor (Energy)	To provide technical guidance and support that informs proposals and project implementation in environment and climate change matters. To also ensure that the organization's projects are implementing activities in line with best environmental practices following local and donors' environmental regulations. Project falls within their area of administration/jurisdiction. Represents interests of National government at county level.
8.	Directorate of Public Health- Likoni subcounty	- Said Mwakulo	To guide on public health aspects to consider during the entire cycle of the proposed project
9.	Directorate of Agriculture and Livestock- Mombasa County	- Henry Kahindi - Swaleh Mohammed	Project falls within their area of administration/jurisdiction. Represents interests of National government at county level.
10.	Sate Department of Social and Gender Development	- Mealli	To promote decent work and protection of vulnerable groups.
11.	Kenya Forest Service- Mombasa County - Ecosystem Conservator	- Jennifer Situma	To provide insights on the impact of the project on the forests and vegetation.
12.	Kenya Wildlife Service- Mombasa County	- Jackline Benard - Dr. Omar Mohammed	To provide insights on the impact of the project on the wildlife.
13.	Directorate of Occupational Health and Safety- Mombasa County	- Mariam Toffiq	Mandated to regulate on Safety, health and welfare of workers
14.	State Department of Trade and Enterprise Development- Mombasa County	- David Rono	To promote Industrialization through the promotion and oversight of the Development of Special Economic Zones and development of Industrial Policy.

No.	Name of stakeholder	Name of Respondent	Stakeholder interest/ relevance
15.	National Environment Management Authority	- Samuel Lopokoit	Regulatory body that identifies projects and programmes for which environmental audit or environmental monitoring must be conducted.
16.	Senior Mtongwe Location	- Fatuma Khamisi	The project falls within their locality. They chair national development projects with their areas of jurisdiction.
17.	Assistant Chief Mtongwe sublocation	- Rashid Abdalla	
18.	Interior (Assistant Chief)	- Munga Ndegwa	
19.	Assistant Chief-Mnyenzi	- Joseph Shanga Mgandi	
20.	Assistant Chief -	- Abdalla Salim	
21.	Assistant Chief- Ngómbeni sub-Location	- Mohammed Nyauma	
22.	Assistant Chief- Mtaa	- Musena Ngoa	
23.	Assistant Chief- Bofu sublocation	- Joseph Nyae	
24.	Chief – Mwatate Location	- Samson Chale Jomo	
25.	Chief- Mariakani Location	- Harission Katana	
26.	Assistant Chief- Matumbi Sub-location	Marsib Chirima Mwingo	
27.	Chief- Mwavumbo location	- Samson Dallu	
28.	Assistant Chief- Mitangoni sublocation	- Nelson Katana	
29.	OOP	- Ngau Dzuwamwenga	
30.	General public (DongoKundu area and along the transmission line route)	- Names and contacts are attached in the Annexes	<p>This included persons living in the vicinity of the proposed project and the Project Affected Persons.</p> <p>These are the people directly affected by the proposed project (primary stakeholders).</p>

5.5 Approaches to Update Stakeholder Consultations and Involvement

As part of the ESIA process for the proposed project, stakeholder consultations were **undertaken. A detailed stakeholder's consultation for this** update was undertaken as follows (1) DongoKundu substation as from 20th September to 2nd October 2021; and the Transmission line route variation as from 28th February 2022 to 12 March 2022. **The various interests'** groups were involved in a participatory process to ensure that all the stakeholders including target beneficiaries and persons affected or interested in the project were involved through sharing of information, pointing out issues of concern and suggesting solutions on how various areas of conflict can be addressed.

The purpose of these consultations was to ensure that all-important environmental, social, and economic issues relating to the project are clearly understood by all stakeholders to enable them to make informed decisions on the project including endorsement and provision of information and recommendations towards enhancement of positive impact and mitigation of **negative impacts. This will go a long way in enhancing ownership and acquiring the project's** social license to operate and ensuring sustainability of the project.

5.5.1 Key Informant Questionnaires:

The purpose for administering questionnaires was to identify the positive and negative impacts and subsequently gather proposals on the best practices to be adopted and mitigate the negative impacts respectively. This also helped in identifying any other miscellaneous issues, which may bring conflicts in case the proposed transmission line and associated facilities implementation proceeds as planned. The information gathered enabled the identification of the specific issues from the respondents, which provided the basis upon which the aspects of the Environmental and Social Impact Assessment was undertaken. Among the stakeholders who were consulted through administration of ESIA questionnaires included the local community members drawn from all the locations traversed by the project including the Mbuta (formerly Mtongwe) where the new substation is located; and key informant stakeholders drawn from the different government departments in the national and county governments, the project design team, and NGOs.

5.5.2 Community Questionnaires:

A total of 110 ESIA update questionnaires were administered during the consultative public participation exercise across the three counties. 24 questionnaires from key informant stakeholders and 110 questionnaires from the community (see Annex 3– ESIA Public Consultation Questionnaires).

Table 15 presents views collected from the administered questionnaires.

5.5.3 Public Barazas

A total of 9 public community meetings were conducted at the administrative locations in the three counties traversed by transmission line. Courtesy calls were made to the respective local administration leaders (Chiefs and Assistant chiefs) to advise on the most suitable venues for holding public meetings. The selection of the public meeting venues was also done in **consultation with the village elders. The venues' selection was based on proximity to the proposed project's wayleave, ease of site accessibility**, population, and renowned venues for holding public meetings in the respective project areas. All the affected locations and villages along proposed line were covered during the public consultation meetings as the venues were spread out equally along the proposed project area.

The public meetings were chaired by the Locational Chiefs assisted by their Sub-locational Assistant Chiefs whose administrative areas were affected by the transmission line. The meetings involved introductions, presentations on the nature, construction, operation and

likely impacts of transmission line by the KETRACO, open discussions that involved questions and answers, expressions of concerns, comments, and suggestions.

The meetings were held to engage a wider audience in information sharing and discussion. The meetings increased awareness of the proposed transmission line and associated facilities and were an ongoing means of engaging further public involvement. Participants were provided with a chance to voice their concerns, issues, and ideas. These meetings also created avenues for providing opportunities for exploring alternative strategies and building consensus. This contributed to giving the proposed transmission line a social license to operate in the respective locations.

Consultative meetings were continuously held during the ESIA update Study exercise to deliberate on the positive impacts, negative impacts and mitigation measures for the proposed transmission line and associated facilities as well as capturing issues raised by the affected persons. The public meetings were held on various dates as illustrated in Table 14. with the local community members, *Nyumba Kumi* Elders, *mabalozi*, Chiefs, Assistant Chiefs, County Officials, and institutions/organisations' representatives in attendance.

In all the meetings held, the following project information was shared.

- The project description and justification for variation
- Purpose of the ESIA and RAP update
- Purpose of the public community meetings
- Role and contribution of the community in the assessment
- Importance/benefits of the proposed project to the community
- Impacts of the proposed project
- Public rights and entitlements e.g., on compensation, right to accept or reject the

The ESIA public meetings were also used as sensitization avenues for the forthcoming RAP update and associated socio-economic data/ census exercise. The participants at the meeting were briefly sensitized about the PAPs compensation procedures and encouraged to attend the scheduled RAP meetings for detailed RAP information. A summary of the public meetings held is shown in the Table 14. Recorded minutes with their attendance sheets for the meetings held are attached as Annexes to this report. (*Annex 5 - Public Meetings' Minutes and Annex 6 - Attendance Sheets*).

Table 14: Public Barazas held

Date	Location	Venue	Number of attendants
28 th September 2021	Mbuta Location (Formerly part of large Mtongwe Location)	DCC Grounds near Mwangala	30
07 th March 2022	Mariakani Location (Mitangoni sublocation)	Mbuyuni (near EMACO Hotel along the Mombasa)	45
	Mwavumbo Location (Kalalani sublocation)	Mwanda	136
08 th March 2022	Mtaa Location	Vitangani ECD	53
	Mwatate Location	Chief's office	76
09 th March 2022	Kasemeni location (Mnyenzi and Bofu sub-locations)	Chief's office	124
	Gandini Location	Lutsangani AP Camp Grounds	53
10 th March 2022	Ngombeni location	Kiteje Chief's office	68
	Mbuguni Location	Chief's office	68

Total

653



Figure 27: Public Baraza for Dongo Kundu on 28th September 2021 at the DCC grounds



Figure 28: Public Baraza for Mariakani location at Mbuyuni on 7th March 2022



Figure 29: Public Baraza for Mwavumbo (Kalalalani) location on 7th March 2022 at Mwanda area



Figure 30: Public Baraza for Mwatate Location on 8th March 2022



Figure 31: Public Baraza for Gandini location at on 9th March 2022 at Lutsangani AP camp grounds



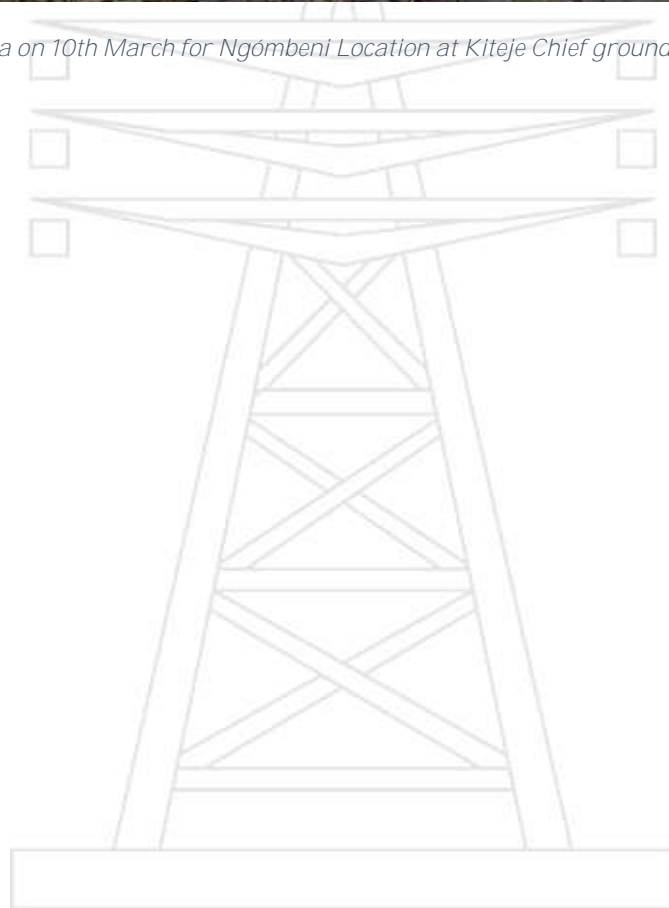
Figure 32: Public Baraza for Kasemeni Location (Mnyenzi sublocation) on 9th March 2022 at the Chief's grounds



Figure 33: Public Baraza for Mbuguni Location on 10th March 2022 at the Chief's grounds



Figure 34: Public Baraza on 10th March for Ngömbe Location at Kiteje Chief grounds



5.6 Results of Stakeholder Consultations:

Stakeholders consulted gave both positive and negative views, as well as suggestions for the proponent to consider during construction and operation phases of the project. The Table 16 below provides a summary of the outcome from the stakeholders consulted.

Table 15: Outcome of stakeholder consultations from Key stakeholders and the public

Stakeholder group	Method of consultation	Role of stakeholder to the project	Number of participants	Identified positive and negative impacts	Proposed mitigation
Directorate of Environment and Climate change	Questionnaire	To provide technical guidance and support that informs proposals and project implementation in environment and climate change matters. To also ensure that the organization's projects are implementing activities in line with best environmental practices following local and donors' environmental regulations.	2 respondents	<ul style="list-style-type: none"> Improved healthcare Urbanization of the area Reduced reliance on wood fuel and kerosene as a result of the stable Power supply. It will boost economic growth in the county through manufacturing. Land issues due to increase in land value. Urbanization will lead to eradication of cultural practices. Mortality of avifauna Waste generation Increase in GHGs emission 	<ul style="list-style-type: none"> Ensuring that communities uphold their cultural values Ensuring communities are encouraged to get title deeds for their properties. Sensitize communities on safety practices. Put up signages' within the substation
Directorate of Energy	Questionnaire	Project falls within their area of administration/jurisdiction. Represents interests of National government at county level.	1 respondent	<ul style="list-style-type: none"> Employment creation Creation of small community-based projects. The stable supply of electricity will hence market for the local community for their agricultural products. Spread of Covid-19 Spread of HIV/AIDS 	<ul style="list-style-type: none"> Workers should work under strict covid – 19 protocols. Employment Public health officers should regularly visit the site

Stakeholder group	Method of consultation	Role of stakeholder to the project	Number of participants	Identified positive and negative impacts	Proposed mitigation
				<ul style="list-style-type: none"> • Spread of water related disease like cholera. • Waste management 	
Directorate of Public Health	Questionnaire	To guide on public health aspects to consider during the entire cycle of the proposed project	1 respondent	<ul style="list-style-type: none"> • Employment • Relocation of people. 	<ul style="list-style-type: none"> • Proper dialogue and consultation with the community around before construction. • Proper physical planning to prevent congestion into the area as a result of influx of people • Proper stakeholder engagement in the entire project life cycle
Directorate of Agriculture and Livestock	Questionnaire	Project falls within their area of administration/jurisdiction. Represents interests of National government at county level.	1 respondent	<ul style="list-style-type: none"> • Improved living standards • Employment creation • Electricity will boost commercial agricultural activities • Deforestation • Loss of arable farmland • Loss of grazing areas 	<ul style="list-style-type: none"> • Resettlement of PAPs • Rehabilitation of destroyed vegetation
Kenya Forest Service	Questionnaire	To provide insights on the impact of the project on the forests and vegetation.	1 respondent	<ul style="list-style-type: none"> • Electricity compared to other forms of energy lead to reduced air pollution • Improved security and access to energy • Employment creation • Improved living standards of the local population • The process of installation will cause land, wetlands and other natural features 	<ul style="list-style-type: none"> • Compensation of the people affected • Carry out restoration exercises in case of damage to environment • Ensure all health and safety protocols are put in place • Planting trees to mitigate on radio frequencies and radiation • Adherence to the laws of the land e.g. EMCA in case of noise and dust

Stakeholder group	Method of consultation	Role of stakeholder to the project	Number of participants	Identified positive and negative impacts	Proposed mitigation
				<p>disturbances thus alter the surrounding environment.</p> <ul style="list-style-type: none"> • Machinery and equipment as well as the process of installation will lead to compacted soils which in turn leads to increased water retention capacity of the soil thus enhanced runoff and therefore shoreline erosion as well as sedimentation • Clearance of any available vegetation will lead to soil erosion • Deforestation • Influx of workers on the sites who will generate waste, require sanitation as well as prone accidents (Pollution that will affect the Mangroves) • Generation and delivery of electricity will harm wildlife, the electromagnetic waves generated as well as electrocution. This is also true to aquatic and marine animals which are impacted • In adverse weather conditions, risk of electrocution and damage to the 	<p>pollution, Forest Conservation and Management Act 2016, in case of tree damage etc</p>

Stakeholder group	Method of consultation	Role of stakeholder to the project	Number of participants	Identified positive and negative impacts	Proposed mitigation
				<ul style="list-style-type: none"> surrounding by falling wires Radiation generated by the power lines are a risk to people and wildlife (especially birds) 	
Kenya Wildlife Service	Questionnaire	To provide insights on the impact of the project on the wildlife.	1 respondent	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Deputy County Commissioner, Likoni subcounty	Questionnaire	Monitoring the implementation of Governments programmes.	1 respondent	<ul style="list-style-type: none"> Employment Industrial growth Economic gains from improved and stabilised power Increase in land value Increased insecurity Displacement of people Increase in land disputes Loss of arable land leading to loss of livelihood 	<ul style="list-style-type: none"> Compensation of PAPs Sensitization of PAPs on effective use of compensation money
Ministry of Industrialization. Trade and Enterprise Development	Questionnaire	To promote industrialization through the promotion and oversight of the Development of Special Economic Zones and development of Industrial Policy.	1 respondent	<ul style="list-style-type: none"> Creation of employment 	-
Ministry of Labour and Social Protection-DOSHS	Questionnaire	To promote decent work and protection of vulnerable groups.	1 respondent	<ul style="list-style-type: none"> Employment Enhance economic growth Growth of infrastructure in the area Air and soil Pollution Increased insecurity in the area 	<ul style="list-style-type: none"> Increase security in the area Proper use of signages' on site Proper OHS Management systems should be put in place

Stakeholder group	Method of consultation	Role of stakeholder to the project	Number of participants	Identified positive and negative impacts	Proposed mitigation
Coast Development Authority	Questionnaire	To provide integrated development planning, coordination and implementation of projects and programmes within Coast Region, Southern Garissa and Kenya's Exclusive Economic Zone (EEZ).	1 respondent	<ul style="list-style-type: none"> • Reliable electricity supply • Enhance economic growth • Dongo Kundu will now be accessible • Increased security • Improved standards of living of the community • Possible injury to workers • Waste generation • Loss of aesthetic value of land • Local people displacement • Impact of endemic species • Destruction of habitats 	<ul style="list-style-type: none"> • Resettlement and compensation of PAPs • Provision of OHS measures for workers • Compensation for loss of trees • Minimize waste generation
Local administration	Questionnaire	The project falls within their locality	2 respondents	<ul style="list-style-type: none"> • Improved access to electricity • Creation of employment • Deforestation • Imminent danger due to the high voltage electricity • Restricted access of the area to community • Dust and noise pollution 	<ul style="list-style-type: none"> • Reforestation • Sensitization • Water sprinkling • Protection of kayas and Tembo springs • Bumps to regulate vehicle speed
Community members	<ul style="list-style-type: none"> • Public <i>baraza</i> • Questionnaires 	Community directly impacted by the proposed project	27 participants (4 females and 23 males)	<ul style="list-style-type: none"> • Creation of employment 	<ul style="list-style-type: none"> • The contractor should use the locals during construction, i.e. the skilled and unskilled labour.

Stakeholder group	Method of consultation	Role of stakeholder to the project	Number of participants	Identified positive and negative impacts	Proposed mitigation
				<ul style="list-style-type: none"> Vast tree felling 	<ul style="list-style-type: none"> Ketraco can work on donating tree seedlings to communities to replace the trees that were cut to pave way for construction activities. Clean up activities can also be organized to restore the land to its status before construction activities.
				<ul style="list-style-type: none"> Relocation and loss of land due to demolition of structures and acquisition of land for creation of wayleave respectively 	<ul style="list-style-type: none"> Compensation for loss of structures Compensation for loss of land
				<ul style="list-style-type: none"> Exposure to accidents and other occupational health and safety hazards 	<ul style="list-style-type: none"> Develop and roll out an Environment, Health and safety (EHS) plan that meets national and international standards
				<ul style="list-style-type: none"> Possibility of occurrence of accidents on the site during construction 	<ul style="list-style-type: none"> Regular training and sensitization of workers Documentation of all incidences, accidents and near-misses. Induction of all personnel accessing the site. Proper use of hazard signage
				<ul style="list-style-type: none"> Increase in social vices due to influx of population in the project 	<ul style="list-style-type: none"> Both skilled and unskilled labour will be sourced

Stakeholder group	Method of consultation	Role of stakeholder to the project	Number of participants	Identified positive and negative impacts	Proposed mitigation
				<p>area as a result of emergence of new industries as well as general development in the area.</p> <ul style="list-style-type: none"> Spread of communicable diseases such as Sexually Transmitted Infections (STIs) and HIV/AIDS, Covid – 19, among others 	<p>locally to minimize immigration.</p> <ul style="list-style-type: none"> Workers will be trained and regularly sensitized on issues related to population influx.
				<ul style="list-style-type: none"> Dust emissions resulting in air pollution 	<ul style="list-style-type: none"> Training and regularly sensitizing workers on communicable diseases Provision of condoms to employees Strictly enforcing government protocols on pandemics including such as Covid - 19
					<ul style="list-style-type: none"> Regular water sprinkling/dust suppression Keep traffic to approved site speed limits (maximum 20km/hr)

6 CHAPTER SIX: IMPACT IDENTIFICATION, ANALYSIS AND MITIGATION MEASURES

6.1 Introduction

This chapter is an update to the same chapter in the original ESIA as submitted and approved by NEMA. The status of impacts as predicted and assessed in the original ESIA remain the same. However, there is a general improved interaction between the project and natural and human environment due to the following factors: -

- a. The length of the line has been reduced by 2km
- b. There are fewer affected households in comparison to the data presented in 2018
- c. The varied route considerably minimized the number of line crossings at River Mteza (Cha Shimba), from 3 crossings to 1 crossing.
- d. The location of the Dongo Kundu substation is further onshore as compared to the proposal as given in the original ESIA.
- e. The varied route avoids several residential areas
- f. The varied route avoided community amenities such as schools.
- g. Shrines that had been affected by previous route have been avoided with the varied route. Graves identified in the original ESIA between MDK 3 and 4 have been avoided. The impact at the community Forest at Gandini (Lutsangani) area has been considerably reduced by changing the orientation of the line horizontally, rather than the longitudinal orientation in the original route.

The development of the proposed 220kV Transmission Line from Mariakani-Dongo Kundu and a Sub-Station will change both the environmental and the socio-economic salient features of the project area. During the implementation, potential positive and negative environmental and social impacts are expected to arise during the construction and operation phases.

6.2 Results of ESIA Scoping Exercise

The matrix providing the classification and occurrence of the potential environmental impacts and the actions required during the ESIA Study are outlined in Table 17 below:

Table 16: Scoping of Environmental Impacts

	Item	Phase	Rating	Rationale	TOR of EIA Study
1	Air pollution	C	B-	Construction works may to some extent cause air pollution such as through: <ul style="list-style-type: none"> • Exhaust gas and fugitive dust emissions from construction vehicles and machines. • Fugitive dust emissions from heavy construction works such as excavation and ground levelling works. 	Assessment of impacts based on baseline air quality survey and construction plan.
		O	D	There are no notable air pollution sources.	—
2	Water pollution	C	B-	<ul style="list-style-type: none"> • Rainwater runoff from the construction sites may pollute nearby surface waters and shallow groundwater sources • Rainwater runoff from excavated areas of the construction sites may cause siltation of nearby rivers and streams 	Assessment of impacts based on construction plan and location of surface waters and depth to shallow groundwater
		O	D	There are no notable water pollution sources.	—
3	Soil pollution	C	B-	Possible oil leaks from construction vehicles and machines may cause soil pollution.	Assessment of impacts based on construction plan.
		O	B-	Possible transformer oil leaks from substation.	Assessment of impacts based on operation and maintenance plan
4	Waste	C	B-	Various construction wastes will be generated. (e.g. cleared vegetation, waste oil, excavated soil, sanitary and domestic wastes from workers camp)	Assessment of impacts based on the construction and waste management plan.
		O	B-	Waste will be generated from maintenance activities (e.g. cleared vegetation, transmission oil).	Assessment of impacts based on the operation plan.
5	Noise and vibration	C	B-	Heavy construction works and vehicles/machines may cause noise/vibration nuisance.	Assessment of impacts based on the construction plan.
		O	D	There are no notable noise/vibration pollution sources.	—

	Item	Phase	Rating	Rationale	TOR of EIA Study
6	Ground subsidence	C, O	D	No activities are expected that may cause ground subsidence.	—
7	Offensive odour	C, O	D	There are no notable odor sources.	—
8	Bottom sediment	C, O	D	There are no notable sediment pollution sources.	—
9	Conservation area	PC, C	B-	There is Kaya Gandini in the vicinity of the transmission line.	Assessment of Impacts based on proximity to transmission line
		O	D	There are no activities that may have adverse impact on conservation areas.	—
10	Ecosystem, flora/fauna	PC	B-	Some forest trees along the transmission line corridor will be cut to allow for construction/maintenance works and for maintaining sufficient clearance for the transmission line.	Assessment of impacts based on baseline flora/fauna survey and construction plan.
		O	B-	<ul style="list-style-type: none"> There will be a risk of bird collision and wildlife electrocution with the new transmission lines. Trees and other plants that have the potential of growing higher than 12 feet will be cut during the operation period 	Assessment of impacts based on baseline flora/fauna survey.
11	Hydrology	C	D	Some sections of the transmission line crosses through rivers and streams.	Assessment of impacts after identifying existing hydrological systems (e.g. rivers and streams).
		O	D	There may be minor change in the hydrological setting in the SS area due to for example concrete pavement, but impacts are likely to be insignificant due the limited area	—
12	Topography	C	D	There will only be minor change in topography at the substation due to cut and fill works.	Assessment of impacts based on substation design and construction plan.
		O	D	There are no activities that may cause alteration of existing topography.	—

	Item	Phase	Rating	Rationale	TOR of EIA Study
13	Involuntary resettlement	PC	B-	Some resettlement will be required but not to a large scale.	Details of resettlement will be identified through RAP study that is being finalized.
		C, O	D	Resettlement will not be required.	—
14	Vulnerable social groups	PC, C, O	B-	Some vulnerable groups have been identified along the Project area.	Assessment of impacts based on baseline socioeconomic survey.
15	Livelihood, living environment	PC	B-	<ul style="list-style-type: none"> Displaced residents may be affected if not appropriately compensated and assisted. Some residents may be affected for example through loss of income streams. 	Assessment of impacts based on RAP study.
		C	B-	Construction works may restrict some livelihood activities.	Assessment of impacts based on baseline socioeconomic survey.
		O	D	There are no activities that may have adverse impacts.	—
16	Land use	PC, C, O	B-	There will be some alteration in land use.	Assessment of impacts based on baseline socioeconomic survey.
17	Local resource	C, O	D	There are no activities that may have adverse impacts on local resources.	—
18	Water use	C, O	D	There are no activities that may have adverse impacts on water use.	—
19	Social infrastructures and services	PC	B-	Some social infrastructures such as school, community grave may be affected.	Assessment of impacts based on baseline socioeconomic survey.
		O	D	No impacts are expected.	—
20	Social institutions	C	B-	There may be activities that may have negative impacts on social institutions such as influx of construction workers.	Assessment of impacts based on baseline socioeconomic survey.
		O	D	No impacts are expected.	

	Item	Phase	Rating	Rationale	TOR of EIA Study
21	Misdistribution of benefit and losses	C, O	B-	There could be some misdistribution of benefit and losses to the local community.	Assessment of impacts based on baseline socioeconomic survey.
22	Local conflicts of interest	C, O	B-	There could be some local conflicts of interests arising from job opportunities and supply of construction materials.	Assessment of impacts based on the construction plan.
23	Cultural heritage	PC, O	B-	Some tree shrines and kaya are located inside the Project corridor.	Assessment of impacts based on cultural heritage impact assessment.
24	Landscape	C, O	B-	There will be some change in landscape.	Assessment of impacts based on baseline socioeconomic survey.
25	Gender	C, O	B-	The Project may trigger gender issues.	Assessment of impacts based on socioeconomic survey and gender analysis
26	Children's rights	C	B-	The project may be trigger children's rights issues.	Assessment of impacts based on socioeconomic survey and vulnerable persons
		O	D	There are no activities that may have adverse impacts.	
27	Infectious diseases (HIV/AIDS etc.)	C	B-	There is a certain risk of infectious diseases spreading through influx of construction workers.	Consideration of appropriate measures to minimize risk of infectious diseases.
		O	D	The risk of spreading infectious diseases is low.	—
28	Occupational safety	C, O	B-	There is a moderate risk of occupational accidents (e.g. high-place work, electrocution).	Assessment of impacts based on construction and operation plans.
29	Accidents	C	B-	There is a certain risk of accidents (e.g. traffic accidents).	Assessment of impacts based on construction plan.
		O	D	The risk of accidents is low.	—

NB:

A+/-: Significant positive/negative impact is expected.

B+/-: Positive/negative impact is expected to some extent.

C+/-: Extent of positive/negative impact is unknown.
D: No impact is expected

Abbreviations

PC - Pre-construction stage,
C - Construction stage.
O - Operation stage

6.3 Potential Positive Impacts

The proposed Mariakani-Dongo Kundu 220kV Transmission Line and Sub-station at Dongo Kundu have notable positive effects that have been identified during this ESIA study. They are included in Table 18.

Table 17: Potential Positive Impacts

No	Potential Positive Impact	Justification
1.	Supply of adequate power to Special Economic Zone (SEZ)	Make the proposed SEZ realize its objective of attracting investment and developing an industrial and commercial hub in Dongo Kundu area
2.	Availability of affordable power	Facilitate SEZ produce goods and other services at competitive prices for both domestic and export markets
3.	Improvement of income and enhancement of livelihood of project area community	The TL will facilitate SEZ generate job opportunities at Dongo Kundu that will enhance livelihood and economic growth.
4	Enhancement of property value in Dongo Kundu and the surrounding areas	The Transmission Line (TL) will contribute to the appreciation of land and other property within Dongo Kundu and the surrounding areas

6.4 Assessment of Potential Negative Impacts and Mitigation Measures

The study has noted that besides the positive effects, there are negative environmental and social implications that are associated with its implementation as highlighted below:

6.4.1 Sources of Negative Impacts

The potential sources of negative impacts of the transmission line project include the following:

- Clearance of Tall Vegetation and Forest - Clearance of existing vegetation to create the 40m wide Right of Way (ROW) along the 53km transmission line corridor and to a less extent, the construction of access roads for construction and maintenance.
- Excavation Activities - Excavation and disturbance of top soils and geological formation at the proposed substation site and the sites where the pylon bases will be located will cause loosening of the top soil that can easily be blown away or transported by water.
- Construction Activities - Construction activities of the proposed transmission line structures and other activities associated with civil works
 - a) Vegetation clearance
 - b) Excavation activities
 - c) Water demand for construction personnel & activities
 - d) Site construction waste generation
 - e) Fugitive dust emission
 - f) Exhaust gas emission from vehicles and machinery
 - g) Noise from construction machinery
- Displacement of Structures - Effects of construction activities to human settlement resulting to displacement of affected persons
- Presence of Transmission Lines in Forests: Presence of Transmission Line in vegetated/forested areas where there are migratory birds and animals that climb structures.
- Steep Slopes within the TL Corridor – Presence of relatively steep slopes within the TL corridor where construction of pylon bases will take place.
- **Contractor's Construction Camps – The contractor's camp will accommodate various activities like residential units for caretakers and storage of construction materials that will include fuels, oils, and chemicals.**

- Development of Structures in a Natural Environment – Development of structures that do not conform to the host natural environment.
- Disruption of socio-economic activities – The project area has some socio-economic activities like growing of commercial plants like cashew nuts, coconuts, mangos, quarrying of building stones etc. which will be disrupted.
- Disruption of wildlife and migratory bird transitory habitats – The forested areas of the TL corridor (MDK6-MDK13-16) was in the past a dispersal area for elephants and other animals from Mwaluganje Forest Reserve. But it no longer is as at now.
- Alteration of Land Use – The TL will alter land use patterns in the project corridor
- Working at Heights – Some of the workers will be working at heights when installing and stringing of conductors and when carrying out maintenance.
- Greenhouse Effect – Loss of some forest cover along the TL corridor over 2.5km
- Riparian Distance – There is a requirement that riparian distance from the river water is observed when putting up a development or structure next to a river basin to avoid impacting the river/stream.
- Increased Water Demand for Construction – Construction of the Transmission Line infrastructure will require extra supply of water.

6.4.2 Assessment of Negative Impacts

The environmental element and potential negative impacts that are likely to be generated by the project are given in Table 19

6.4.3 Mitigation Measures

The proposed mitigation measures for the observed impacts during construction and operation are provided in Table 19.

Table 18: Mitigation Measures

No	Item	Potential impact	Mitigation measures
Pre-construction phase			
1.	Involuntary resettlement	Displacement/relocation of persons, structures, trees due to land easement/acquisition	<ul style="list-style-type: none"> • Carry out fair and adequate compensation as per Kenyan law, JICA/WB guideline and provide assistance (allowances and livelihood restoration programs) to PAPs until such a time that their livelihoods and incomes are restored to pre-project levels or better. • Implement internal and external monitoring to ensure the RAP is implemented appropriately. • Vulnerable persons including women household heads to be provided with extra assistance. • A grievance redress mechanism (e.g. establishment of Grievance Committee) will be put in place to address all emerging complaints and grievances from the PAPs and project area community.
2.	Ecosystem, flora/fauna	<p>Loss of forest trees and habitat due to forest clearance along the TL corridor.</p> <p>NB: There was a route change within the community forest at Lutsangani area. The new route traverses the forest at a section close to the</p>	<ul style="list-style-type: none"> • KETRACO will compensate for the affected trees as follows: <ul style="list-style-type: none"> ✓ For private and community owned trees, KETRACO will seek approval from the owners and compensate as per KFS valuation guideline. ✓ For public trees, KETRACO will seek permission from KFS as per Forest Conservation and Management Act, 2016 and compensate as per KFS's instructions.

No	Item	Potential impact	Mitigation measures
Pre-construction phase			
		road. The section is already disturbed and hence reduces the impact compared to original route that ran through the forest.	
		Loss of habitat of indigenous tree species between MDK 14 and 15	<p>In the rerouting of the line, it was shifting to run across a narrow stretch of the forest that is already disturbed. This reduced the impact considerably compared to the initial route proposal that ran along the forest.</p> <p>Other sections of the line that have been varied to avoid or reduce the project impact on the vegetation and natural habitat is the Mteza (Cha Shimba) River</p>
3.	Social infrastructure	TL corridor passing over Kiteje secondary school	<ul style="list-style-type: none"> The school has been avoided by the new varied route
4.	Cultural heritage	<p>Partial loss of Kaya Gandini due to TL corridor</p> <ul style="list-style-type: none"> The Kaya has been avoided by the new route. However, the line passes close to the boundary of the Kaya No shrine was identified within the varied route The number of graves affected by the varied route reduced. 	<ul style="list-style-type: none"> Consultation with elders in during construction phase Avoid stacking overburden material at the periphery of the Kaya. Avoiding graves during tower spotting along the TL. In case the graves are not avoided, then cultural accepted measures should be instituted as compensatory mechanism.
		Cutting of tree shrine due to TL corridor	<ul style="list-style-type: none"> The Tree was avoided with the varied route
Construction phase			
5.	Air pollution	Fugitive dust and exhaust emissions from construction vehicles	<ul style="list-style-type: none"> Implement regular maintenance and emission test of vehicles as per Environmental Management and Co-ordination (Air Quality) Regulations 2014. Vehicles emitting excessive pollutants (e.g. black soot) to be removed from operation until repaired. Slow driving on dusty roads within the community area. Regular water spraying of access road. Cover truck loading bed when transporting loose materials such as rock, sand and mud. Avoid to the extent possible passing through sensitive areas (e.g. residential area, schools).

No	Item	Potential impact	Mitigation measures
Pre-construction phase			
6.		Fugitive dust emission from heavy civil works	<ul style="list-style-type: none"> Regular water spraying of exposed surfaces. Cover exposed cut and fill surfaces and unused stockpiles.
7.	Water pollution	Soil erosion and runoff from construction site	<ul style="list-style-type: none"> Soils excavated at the construction site of the towers shall be used for backfilling. Avoid removing short vegetation and grass along the transmission line corridor as far as it does not hinder construction works. Implementation of temporary erosion control measures (e.g. silt fence, erosion mats) especially where construction sites are near surface water. Revegetation of exposed slopes with native species soon after construction is completed. Construction of retaining walls for exposed slope protection if necessary. Construction of temporary runoff drainage channels. Stockpiles and temporarily removed topsoil to be stored in a location and manner to prevent soil runoff into surface waters. Riverine vegetation should be minimally disturbed.
8.		Uncontrolled discharge of concrete wash water	<ul style="list-style-type: none"> Concrete wash water (e.g. from concrete mixer and pump trucks) are to be discharged at designated facilities only (e.g. facilities with wash water treatment system). Discharge of untreated concrete wash water to surface water and groundwater to be strictly prohibited. Concrete wash water should be recycled as much as possible.
9.	Soil pollution	Accidental spillage of oils and other hazardous chemicals to the ground	<ul style="list-style-type: none"> Regular inspection of vehicles and machines for oil and fuel leaks. Leaking vehicles and machines to be removed until repaired. Spill response kit (e.g. absorbents) to be readily available at the construction site. Hazardous substances to be stored only in specialized/labelled containers and designated storage facility. Storage facility to be located as far as possible from sensitive areas (e.g. groundwater wells, surface water) and well secured from the public. Storage and handling facilities of hazardous liquid to be bunded with an impermeable base. Posting of warning signs at the storage facility. Hazardous materials only to be handled by trained staff.
10.	Waste	Generation of construction waste	<ul style="list-style-type: none"> Minimize waste generation through reuse and recycling. Wastes to be stored in designated areas and with containers specialized for each waste type. Wastes to be collected and disposed only by NEMA-authorized firms. Construction contractor to prepare a Waste Management Plan (WMP) that identifies the different wastes that will be generated and their proposed storage and disposal procedure.
11.	Noise	Noise from construction vehicles and activities	<ul style="list-style-type: none"> Equip vehicles and machinery with exhaust mufflers and carry out proper maintenance. Instruct truck and machinery operators to avoid raving of engines. Carry out regular noise monitoring Locate noisy machines as far away from community homesteads. Avoid as much as possible of using roads that pass

No	Item	Potential impact	Mitigation measures
Pre-construction phase			
			through sensitive areas. • Avoid as much as possible of conducting noisy works during nighttime.
12.	Social infrastructure	There may be temporary restrictions on use of local roads	• Construction contractor to prepare Road Use Restriction Plan in case of such needs and inform the local government and community in advance. • Construction contractor to prepare detour route if necessary.
13.	Infectious diseases	Proliferation of infectious diseases due to influx of construction workers	• Construction contractor to prepare HIV/AIDS Prevention Plan in accordance to Kenyan laws and regulations. The plan shall among others include the following: ✓ Planned awareness programs for construction workers ✓ Code of Conduct to be complied by the construction workers ✓ Other measures (e.g. counselling and testing)
14.	Occupational safety	Risk of occupational accidents	• Construction contractor to prepare an Occupational Health and Safety Plan in accordance to Kenyan laws and regulations and JICA's "The Guidance for the Management of Safety for Construction Works in Japanese ODA Projects". The plan shall among others include the following: ✓ Risk assessment and planned safety measures ✓ Training plan for construction workers ✓ Organizational structure ✓ Emergency response plan
15.	Accidents	Risk of traffic accidents	• Strict compliance to speed limits. • Avoid to the extent possible using roads with high risk of accidents. • Vehicle motion alarm to be installed on all construction vehicles • Placement of warning signs and traffic control officers at high risk areas. • Construction contractor to prepare a Traffic Management Plan.
Operation phase			
16.	Water pollution	Pollution of surface water due to runoff from substation	• Transformer oil will be free of PCBs. • Oil pit to be installed at the substation (during construction) to contain accidental spills during transformer oil exchange.
17.	Waste	Generation of operation waste (e.g. transformer oil)	• Wastes to be handled and disposed only by NEMA-authorized firms. • Waste disposal containers to be provided onsite for each waste category. • Oil pit to be regularly emptied and kept in containers for disposal by NEMA approved firms. • Preparation of Waste Management Plan (WMP) that identifies the different wastes that will be generated and their proposed disposal procedure.
18.	Ecosystem	Bird collision with TL	Installation of avian flight diverters (during construction) along the TL passing through forest area (the design shall be considered in the D/D stage).
19.		Electrocution from live TL	Installation of guards (during construction) on the pylons in the forested area to deter climbing animals like baboons (the design shall be considered in the D/D stage).

No	Item	Potential impact	Mitigation measures
Pre-construction phase			
20.	Occupational safety	Risk of occupational accidents for maintenance activities	Maintenance contractor to prepare an Occupational Health and Safety Plan in accordance to Kenyan laws.
Decommission Phase			
21.	Decommissioning activities	Risk of causing disturbance to project area community during decommissioning activities	<ul style="list-style-type: none"> Preparation of a Decommissioning Plan 3 months in advance. Informing NEMA and County Government about the intended decommissioning Informing project area community regarding the intended decommissioning activities and sharing the activities plan Engaging NEMA and County Government Approved Decommissioning and Waste Disposal Firm
22.	Noise	Noise from decommissioning vehicles and activities	<ul style="list-style-type: none"> Equipping vehicles and machinery with exhaust mufflers and carry out proper maintenance. Instructing truck and machinery operators to avoid raving of engines. Avoiding as much as possible use of roads that pass through sensitive areas. Avoiding as much as possible the conducting of noisy works during nighttime.
23.	Waste	Generation of decommissioning waste	<ul style="list-style-type: none"> Wastes to be stored in designated areas and with containers specialized for each waste type. Wastes to be collected and disposed only by NEMA-authorized firms. Decommissioning contractor to prepare a Waste Management Plan (WMP) that identifies the different wastes that will be generated and their proposed storage and disposal procedure.
24.	Soil pollution	Accidental spillage of oils and other hazardous chemicals to the ground	<ul style="list-style-type: none"> There should be careful handling of transformers during decommissioning to avoid oil spillage. Regular inspection of vehicles and machines for oil and fuel leaks. Leaking vehicles and machines to be removed until repaired. Spill response kit (e.g. absorbents) to be readily available at the decommissioning site especially where transformers are located. Hazardous substances to be stored only in designated storage facility with impermeable base and away from sensitive areas (e.g. groundwater wells, surface water) and secured from the public. Hazardous materials are only to be handled by trained staff.

6.5 Resettlement Issues

The proposed Mariakani – Dongo Kundu 220kV Transmission Line will occupy a corridor of 40m wide from Mariakani to Dongo Kundu covering 51km. The area that will be occupied by the Transmission line will be 504 acres of wayleave (204 ha ,2.04 km²). This will be under easement. The Sub-station will occupy 6.3 acres. All persons occupying the identified transmission line corridor and sub-station will be relocated elsewhere to give way for the project. There will be need to carry out resettlement because of the project.

6.5.1 Transmission Line Easement and Substation Land Acquisition

6.5.1.1 Transmission Line (Easement)

An easement conveys limited rights to KETRACO for a specified use (installation and maintenance of Power Transmission Lines) while the property owner retains the land for other uses within the 40-metre wide Right of Way corridor along the entire 51 km. The acquired wayleave corridor for the TL will be under easement by KETRACO where:

- The wayleave corridor may be used for all other purposes except construction of structures and planting of trees which can grow to a height exceeding 12 feet high;
- KETRACO will do prompt, fair and just compensation for limited loss of use of the wayleave area depending on the magnitude of the impact on the land;
- The encumbered part of the land for the wayleave will still remain the property of the landowner.

6.5.1.2 Sub-Station (Acquisition)

The land that will be used to develop the substation in Dongo-Kundu has been fully assigned by SEZA and shall be cleared and levelled by SEZA prior to handover to KETRACO. Every aspect on acquisition of the parcel shall be handled by SEZA.

6.5.2 Affected Persons and Property

A RAP Study was commissioned to carry out detailed census survey to determine affected persons/homesteads. All affected assets including land structures, Trees, Crops and businesses have been determined and valued for compensation and resettlement.

Table 20 provides a summary of affected persons and assets.

Table 19: Impacts on Human Settlements and Assets

No	Description	Units	Quantity
1	Household Heads	Number	83
2	Project Affected Persons (PAPs)	Number	912
3	Land Parcels	Number	580
4	Land Parcels	Total Area in acres	504
5	Structures	Number	168
6	Business	Number	1
7	Trees	Number	8300
10	PAPs for displacement	Number	415

The number of land parcels affected by the TL is Approximately 580 with a total area of approximately 504.084 Acres. The project will cause the relocation of 83 households with total population of 415 PAPs (at an average of 5 members per household). As at the time of the RAP update, no household was Permanently Displaced by the project. However, this is subject to change as adjudication of land is ongoing in the project area. A total of 168 structures and approximately 8,300 Trees will be affected by the project.

There are approximately 497 PAPs without structures (land only). This translates to a total of 912 PAPs affected by the project.

6.5.3 Structure and Role of the PAP Committee

PAP Committees were set in 2018 for the 9 locations touched by the project. These are Mariakani, **Mwavumbo, Mwatate, Mtaa, Kasemeni, Gandini, Mbunguni, Ng'ombeni and Mtongwe Locations**. These committees shall be reviewed upon disclosure of the RAP report to the communities.

6.5.3.1 Structure of PAP Committee

PAP Committees have been initiated to ensure a timely execution of the whole resettlement process. The committee consists of the following representatives:

- Youth
- Men
- Women
- Vulnerable Persons
- County Government (Important Departments)
- National Government.

6.5.3.2 Role of the PAP Committee

The committee's role will include:

- Receiving of any complaints/grievances from PAPs and registering them.
- Resolving of resettlement and compensation issues,
- Ensuring promotion of avenues to address grievances
- Ensuring continuous communication between the PAPs, project proponent (KETRACO) and other stakeholders.

Table 21 below gives the estimate of the amount that will be used to compensate affected persons for loss of land and assets and also facilitate relocation and resettlement.

Table 20: Cost of Affected Land Assets

No.	Property	Total Amount (KShs)
1	Land	136,102,680
2	Structures	50,181,343
3	Trees	11,513,305
4	Crops	2,220,975
Sub Total 1 (KShs)		200,018,303
Support for Livelihood Recovery Support for Socially Vulnerable People (6%)		12,001,098.18
Monitoring and Evaluation (4%)		8000,732.12
Afforestation (2%)		4,000,366.06
Sub Total 2 (KShs)		24,002,196.36
Sub total 1 & 2 (KSHS)		224,020,499.36
Reserve Cost (20% of Gross Total)		44,804,099.87
Grand Total (KShs)		268,824,599.232

Details of the affected persons and resettlement plan is provided in a separate RAP Report (Updated Resettlement Action Plan Study for the Power Supply Component of the Mombasa SEZ Development Project)

7 CHAPTER SEVEN: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

7.1 Environmental Mitigation Measures and Management Plans

7.1.1 Environmental and Social Management Plan (ESMaP)

The Environment Management Plan is going to be important for ensuring project sustainability and environmental and social protection. Whereas efforts are usually made to develop/predict mitigation measures for projects before implementation, it is during the operation lifespan of the project that actual impacts are noted or experienced.

An environment monitoring and management plan that includes the monitoring of the progress of mitigation measures being implemented will be carried out while also monitoring the project for any new negative impacts that were not earlier considered or anticipated.

The proponent shall ensure that the Contractor understands and implements all specified mitigation measures during the pre-construction and construction period. **The proponent's Supervising Engineer will be responsible for assessing the Contractor's Environmental and Social Management Plan** and internally implement the Management Plan to ensure that the environmental and social impacts are monitored and managed in an acceptable manner.

Monitoring systems shall be set up by the Proponent during the operational phase, so that potential environmental problem areas can be detected well in advance and the appropriate remedial action taken. The Proponent shall have a checklist of items that need to be monitored as a matter of routine or periodically over agreed intervals, depending on the nature of the aspect to be monitored. The types of parameters that will be monitored include proposed mitigation measures, design features or actual impacts. Depending on the nature or aspect of impact to be monitored, monitoring will be done as part of routine or periodic maintenance. However, socio-economic, and ecological parameters shall be effectively assessed over a longer time span.

Table 22 provides the Environmental and Social Management Plan (ESMaP) developed after carrying out the ESIA Study of the project corridor.

Table 21: Environmental & Social Management Plan (ESMaP)

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
Pre-construction phase					
Ecosystem	Loss of forest trees and habitat due to forest clearance along the TL corridor	<ul style="list-style-type: none"> The width of forest clearance along the wayleave will be reduced to 20 m to minimize forest clearance. Forest clearance to be conducted as far as possible outside of migratory season (March-November) of Spotted Ground-thrush. In case bird nests are found, they will be relocated to a nearby area/tree. KETRACO will support local/regional afforestation programs through consultation with KFS and local communities. 	KETRACO	KFS	Approx. 1,200,000
Resettlement	Displacement/relocation of persons, structures, trees due to land easement/acquisition	<ul style="list-style-type: none"> Carry out fair and adequate compensation as per RAP and provide livelihood restoration assistance to PAPs until that their livelihoods are restored to pre-project levels or better. Implement internal and external monitoring to ensure the RAP is implemented appropriately. A grievance redress mechanism (e.g. establishment of PAP Committee) will be put in place to address all emerging complaints and grievances from the PAPs and project area community. 	KETRACO NLC	- NLC	199,394,628.70 (as per RAP report)
Vulnerable social groups	Vulnerable people are susceptible to resettlement related impacts	<ul style="list-style-type: none"> Vulnerable HH to be provided with extra assistance as per RAP (e.g. sourcing host land, support with dismantling of structures, moving and building new structures). 	KETRACO NLC	- NLC	As per per RAP Report)

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
Livelihood	Loss of income due to land acquisition or easement	<ul style="list-style-type: none"> TL tower shall be located as far as possible outside offarming areas. Provision of compensation and assistance as per RAP until income are restored to pre-project levels or better. 	KETRACO	- NLC	Included in RAP budget
Land use	Alteration of land use due to land acquisition	<ul style="list-style-type: none"> Provision of compensation and assistance as per RAP until incomes are restored to pre-project levels or better. 	KETRACO NLC	- NLC	Included in RAP budget
Gender	Women are susceptible to resettlement related impacts	<ul style="list-style-type: none"> Women household heads to be provided with extra assistance as per RAP. Hold women focused group meetings as necessary. Allocate women representative in the PAP committee. 	KETRACO	- NLC	Included in RAP budget
Construction phase					
Air pollution	Fugitive dust and exhaust emissions from construction vehicles	<ul style="list-style-type: none"> Implement regular maintenance and vehicles emitting visible pollutants (e.g. black soot) to be removed from operation until repaired as per Environmental Management and Co-ordination (Air Quality) Regulations 2014. Construction vehicles without inspection certificate will not be allowed to operate. Slow driving on dusty roads within the community area. Regular water spraying of access road. Cover truck loading bed when transporting loose materials such as rock, sand and mud. Avoid to the extent possible passing through sensitive areas (e.g. residential area, schools). 	Construction contractor	Supervising consultant KETRACO	Included in construction base cost

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
	Fugitive dust emission from heavy civil works	<ul style="list-style-type: none"> Regular water spraying of exposed surfaces. Cover exposed cut and fill surfaces and unused stockpiles. 	Construction contractor	Supervising consultant KETRACO	Included in construction base cost
Water pollution	Sediment-laden rainwater runoff from construction site	<ul style="list-style-type: none"> Exposed cut and fill slopes at the substation/access road to be protected (e.g. by shotcrete) as soon cut and fill works are completed. Install temporary erosion control measures (e.g. sheet cover, sedimentation pond) as necessary. Stockpiles (e.g. topsoil) to be covered by sheet. Temporary construction yard to be located as far as possible from surface water bodies and wetlands 	Construction contractor	Supervising consultant KETRACO	Included in construction base cost
	Uncontrolled discharge of concrete wash water	<ul style="list-style-type: none"> Discharge of untreated concrete wash water to the environment to be strictly prohibited. Concrete wash water to be treated at designated facilities (e.g. facilities with wash water treatment system). Acquire effluent discharge license from NEMA in case of discharge to environment. Effluent quality (e.g. pH) to comply with discharge standard set under Environmental Management and Coordination, (Water Quality) Regulations 2006. 	Construction contractor	Supervising consultant KETRACO	Included in construction base cost
Soil pollution	Accidental spillage of oil to the ground	<ul style="list-style-type: none"> Regular inspection of vehicles and machines for oil and fuel leaks. Leaking vehicles and machines to be removed until repaired. Maintenance activities to be conducted at designated facilities with appropriate pollution control. Spill response kit (e.g. absorbents) to be readily available at the construction 	Construction contractor	Supervising consultant KETRACO	Included in construction base cost

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
		site. • Fuel tanks to be installed on an impermeable base with bunds.			
	Generation of construction waste	• Minimize waste generation through reuse and recycling. • Wastes to be stored in designated areas and with containers specialized for each waste type. • Wastes to be collected and disposed only by NEMA- authorized firms. • Construction contractor to prepare a Construction Waste Management Plan (CWMP) through consultation with the county government, which identifies the different wastes that will be generated and their proposed storage and disposal procedure.	Construction contractor	Supervising consultant KETRACO NEMA	Included in construction base cost

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
Noise	Noise from construction vehicles/machine and pile driving works	<ul style="list-style-type: none"> Equip vehicles and machines with exhaust mufflers and carry out regular maintenance/inspection. Prohibit using vehicles that exceed 84 dBA when accelerating as per Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations 2009. Avoid to the extent possible using roads that pass through sensitive areas. If unavoidable, drive slowly when passing through sensitive areas and avoid raving of engines and unnecessary idling. Use to the extent possible low-noise pile driver. Conduct pile-driving works in a manner so that noise levels do not exceed the construction site noise standard set under Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations 2009. In principal, pile-driving at nighttime shall not be allowed. 	Construction contractor	Supervising consultant KETRACO	Included in construction base cost
Vibration	Vibration from pile driving works	<ul style="list-style-type: none"> Locate towers at least over distance of 25 m from the nearest structure. Conduct pile-driving works in manner so that vibration levels do not exceed the construction site vibration standard set under Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations 2009. 	Construction contractor	Supervising consultant KETRACO	Included in construction base cost

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
Conservation area	Indirect disturbance to Kaya Gandini	<ul style="list-style-type: none"> Before commencement of construction, hold meetings with Kaya elders to inform about the construction schedule and works, and consult for necessary mitigation measures. Prohibit entrance of construction workers inside the Kaya. Establish temporary construction yard as far as possible from the Kaya. Use as far as practical low-noise construction machines. 	KETRACO Construction contractor	Supervising consultant KETRACO NMK	Included in construction base cost
Ecosystem	Disturbance to forest fauna along MDK 14-MDK15	<ul style="list-style-type: none"> Implement induction programs for the construction workers regarding prohibition of activities such as hunting, poaching, plant collecting, littering and fire burning. Construction to be conducted as far as possible outside of migratory season (March-November) of Spotted Ground-thrush. Use as far as practical low-noise construction machines. Surround noisy non-mobile equipment (e.g. generator) with noise barrier 	Construction contractor	Supervising consultant KETRACO KWS	Included in construction base cost
Livelihood	Temporary loss of income due to construction-related disturbances	<ul style="list-style-type: none"> Establish temporary construction yard/road as far as possible outside of farmland. Compensation to be provided to affected persons depending on the degree of impact. Inform well in advance the affected persons about the construction plan so that they can harvest their crops and their request can be incorporated into the plan. All casual labor to be resourced from the local community. 	Construction contractor KETRACO	Supervising consultant KETRACO	Included in construction base cost

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
Land use	Temporary restriction in land use due to construction	<ul style="list-style-type: none"> Establish temporary construction yard/road as far as possible where land use is non-existent or limited. 	Construction contractor	Supervising consultant KETRACO	-
Social infrastructure	Temporary restrictions on road use	<ul style="list-style-type: none"> Prepare Road Use Restriction Plan and obtain permission from the road authority (KeNHA, KeRRA). Inform in advance the local community regarding road use restrictions. 	KETRACO Construction contractor	<ul style="list-style-type: none"> Supervising consultant KETRACO KeHNA, KeRRA 	Included in construction base cost -
Children's right	Employment of underage children	<ul style="list-style-type: none"> As per Employment Act 2007, children under 13 years of age will not be employed. As per Employment Act 2007, children between 13 and 16 years of age will not be employed for works that are potentially harmful and prejudice the child's attendance at school. Prohibit employment of children under 18 years of age for potentially harmful works. 	Construction contractor	Supervising consultant KETRACO	
Infectious diseases	Proliferation of infectious diseases due to influx of construction workers	<ul style="list-style-type: none"> Construction contractor to prepare HIV/AIDS Prevention/Awareness Plan in accordance to Kenyan laws and regulations. The plan shall among others include the following: <ul style="list-style-type: none"> ✓ Planned awareness programs for construction workers Code of Conduct to be complied by the construction workers ✓ Other measures (e.g. counselling and testing) 	Construction contractor	Supervising consultant KETRACO County government	Included in construction base cost
Occupational safety	Risk of occupational accidents (e.g. falling from height, falling into pits, machine operation)	<ul style="list-style-type: none"> Use of safety harness during working at height. Install barriers around excavated pits. Engage only qualified operators. Use of PPE. Construction contractor to prepare an 	Construction contractor	Supervising consultant KETRACO DOSHS	Included in construction base cost

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
		Occupational Health and Safety Plan in accordance to Kenyan laws and regulations. The plan shall among others include the following: ✓ Risk assessment and planned safety measures ✓ Training plan for construction workers ✓ Organizational structure ✓ Emergency response plan			
Accidents	Risk of traffic accidents	<ul style="list-style-type: none"> • Strict compliance to speed limits. • Avoid to the extent possible using roads with high risk of accidents. • Vehicle motion alarm to be installed on all construction vehicles • Placement of warning signs and traffic control officers at high risk areas. 	Construction contractor	Supervising consultant KETRACO	Included in construction base cost
Operation phase					
Waste	Generation of operation waste (e.g. leaked transformer oil, domestic waste)	<ul style="list-style-type: none"> • Use transformer oil free of PCBs. • Wastes to be handled and disposed only by NEMA-authorized firms. • Waste disposal containers to be provided onsite for each waste category. • Oil pit to be regularly emptied and kept in containers for disposal by NEMA approved firms. • Preparation of Waste Management Plan (WMP) that identifies the different wastes that will be generated and their proposed disposal procedure. 	KETRACO	NEMA	Included in operation base cost
Ecosystem	Bird collision with TL	<ul style="list-style-type: none"> • Installation of avian flight diverters (during construction) along the TL passing through forest area. 	Construction contractor (for installation)	KWS	Included in construction base cost

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
	Electrocution from live TL	<ul style="list-style-type: none"> Installation of guards (during construction) on the TL tower in the forested area to deter climbing animals like baboons. 	Construction contractor (for installation)	KWS	Included in construction base cost
Occupational safety	Risk of occupational accidents for maintenance activities	<ul style="list-style-type: none"> Maintenance contractor to prepare an Occupational Health and Safety Plan in accordance to Kenyan laws. 	Maintenance contractor	KETRACO	Included in operation base cost
Decommission Phase					
Decommissioning activities	Risk of causing disturbance to project area community during decommissioning activities	<ul style="list-style-type: none"> Preparation of a Decommissioning Plan 3 months in advance. Informing NEMA and County Government about the intended decommissioning Informing project area community regarding the intended decommissioning activities and sharing the activities plan Engaging NEMA and County Government Approved Decommissioning and Waste Disposal Firm 	<ul style="list-style-type: none"> KETRACO Decommissioning contractor 	Supervising consultant	To be estimated in D/D stage
Noise	Noise from decommissioning vehicles and activities	<ul style="list-style-type: none"> Equipping vehicles and machinery with exhaust mufflers and carry out proper maintenance. Instructing truck and machinery operators to avoid raving of engines. Avoiding as much as possible use of roads that pass through sensitive areas. Avoiding as much as possible the conducting of noisy works during nighttime. 	<ul style="list-style-type: none"> KETRACO Decommissioning contractor 	Supervising consultant	To be estimated in D/D stage

Item	Potential impact	Mitigation measures	Implementation responsibility	Supervision responsibility	Approx. cost (KSh)
Waste	Generation of decommissioning waste	<ul style="list-style-type: none"> Wastes to be stored in designated areas and with containers specialized for each waste type. Wastes to be collected and disposed only by NEMA- authorized firms. Decommissioning contractor to prepare a Waste Management Plan (WMP) that identifies the different wastes that will be generated and their proposed storage and disposal procedure. 	<ul style="list-style-type: none"> KETRACO Decommissioning contractor 	Supervising consultant	To be estimated in D/D stage
Soil pollution	Accidental spillage of oils and other hazardous chemicals to the ground	<ul style="list-style-type: none"> There should be careful handling of transformers during decommissioning to avoid oil spillage. Regular inspection of vehicles and machines for oil and fuel leaks. Leaking vehicles and machines to be removed until repaired. Spill response kit (e.g. absorbents) to be readily available at the decommissioning site especially where transformers are located. Hazardous substances to be stored only in designated storage facility with impermeable base and away from sensitive areas (e.g. groundwater wells, surface water) and secured from the public. Hazardous materials are only to be handled by trained staff. 	<ul style="list-style-type: none"> KETRACO Decommissioning contractor 	Supervising consultant	To be estimated in D/D stage

7.1.2 Environmental and Social Monitoring Plan (ESMoP)

Most of the environment where the proposed transmission line is designed to cross is largely virgin and requires that environmental protection is enhanced to ensure that there are no adverse effects occurring from its construction and operation phases. Environmental monitoring is an integral part of the environmental management process. It rationally completes the process that begins with, establishing the environmental baseline condition followed by Carrying out the Environmental and Social Impact Assessment then Implementation of mitigation measures and monitoring the success of those measures.

Environmental and Social monitoring is envisioned as an important process in project management. The monitoring programme will reveal changes and trends brought about by the presence and operations of the project. Such information will be useful in the formulation of sustainable project management and operation strategies. The basic activities for a sound-monitoring programme for the transmission line once it starts operating should at least include the following parameters:

- Collection and analysis of relevant environmental and social data of the site including:
 - Evaluation of the type and quantity of solid waste generated at the construction site
 - Inspection of the materials being used
 - Evaluation of the construction practices
 - Monitoring of the ROW maintenance activities to ensure proper vegetation control methods, prevent invasion by exotic species and support decisions which take advantage of possible benefits to wildlife
 - Evaluation of noise and other effects emanating from the construction sites to wild animal behaviour within vicinity of the route
 - The amount of water consumed during the construction of the tower pads and other structures and how the runoff water is directed
 - Seasonal variation of the presence of disease vectors (mosquitoes)
 - Effects of Vehicle and Human Traffic to wildlife
 - Quality of life of the resettled persons
 - Change in health trends of persons in the project area
- Identification of unexpected environmental impacts
- Formulation of countermeasures to mitigate against the unexpected negative impacts and comparing them with actual impacts as identified during the audit.

7.1.3 Monitoring plan

The ESIA study has revealed that the proposed 220kV Transmission Line from Mariakani – Dongo Kundu and the substation at Dongo Kundu will generate project impacts that require mitigation during construction period. These impacts will also require close monitoring during construction and post construction period.

Monitoring will involve measurements, observations, evaluations, assessment and reporting on various variables during construction and operation. It shall therefore be important that KETRACO to institute monitoring of the success of the mitigation measures and the level of as this will assist in improving operations of the Transmission Line and environmental protection.

Arising from the study, the aspects to be monitored are given in Table 23.

Table 22: Environmental and Social Monitoring Plan

Category	Aim	Method	Frequency	Implementation responsibility	Estimated cost (KSh)
Preconstruction phase					
Involuntary resettlement	To check the progress and effectiveness of RAP implementation	[Internal monitoring] <ul style="list-style-type: none"> Assess whether compensation and other entitlements are being delivered in line with the RAP. Assess whether agreed measures to restore or enhance standards of living are being implemented. Assess whether agreed measures to restore or enhance livelihood and sources of income are being implemented. Identifying any conflicts or problems, issues, or cases of hardship resulting from the resettlement process. 	<ul style="list-style-type: none"> 1/month during RAP implementation Quarterly after RAP implementation for 1 year 	KETRACO	Approx. 2,300,000
		[External monitoring] <ul style="list-style-type: none"> Assessment of compliance with RAP actions Assessment of pre- and post-resettlement socio-economic situation of the affected households Reviewing records of grievances and following up whether or not appropriate corrective actions have been undertaken and outcomes are satisfactory. 	<ul style="list-style-type: none"> Every 6 months during RAP implementation Once a year after resettlement for 2 years 	Independent agency	Approx. 4,300,000

Category	Aim	Method	Frequency	Implementation responsibility	Estimated cost (KSh)
Construction phase					
Air pollution	To check whether excessive dust and exhaust gas are not emitted from the construction sites	Visual inspection of: <ul style="list-style-type: none"> Fugitive dust emissions from construction sites Exhaust gas emissions from construction vehicles and equipment 	Daily	Construction contractor and supervisor	Part of construction and supervision base cost
		Field measurement of air quality (PM ₁₀) at sensitive receptors near the substation sites. Results to be compared with national standard.	1/week during heavy construction works	Construction contractor and supervisor	Approx. 3,000,000
Water pollution	To check whether construction activities are not causing water pollution	Field measurement of surface water quality (e.g. PAHs). Results to be compared with baseline data.	Quarterly	Construction contractor and supervisor	Approx. 1,000,000
Soil pollution	To check of any leaks of hazardous liquids	Visual inspection of: <ul style="list-style-type: none"> Oil leaks from construction machines and vehicle. Leaks from storage and handling areas of hazardous liquids. 	1/week	Construction contractor and supervisor	Part of construction and supervision base cost
Noise	To check whether excessive noise are not emitted from the construction sites	Field measurement of noise level (LAeq) at sensitive receptors near the substation. Results to be compared with national standard.	<ul style="list-style-type: none"> Daily during heavy construction works Daily/hourly on receipt of any complaints 	Construction contractor and supervisor	Part of construction and supervision base cost

Category	Aim	Method	Frequency	Implementation responsibility	Estimated cost (KSh)
Waste	To check whether wastes are stored and handled in accordance to the contractor's Waste Management Plan	Visual inspection of waste storage sites and construction sites.	Daily	Construction contractor and supervisor	Part of construction and supervision base cost
Occupational safety	To check whether safety procedures are implemented in accordance to OHSP (All sites)	Visual inspection of work safety procedures and equipment.	Daily	Construction contractor and supervisor	Part of construction and supervision base cost
Ecosystem	To check if construction activities are not causing any unnecessary disturbance to surrounding habitats and species	Field surveys of forest area	1/month	Construction supervisor (subcontract to local consultant)	Approx. 8,500,000
Operation phase					
Waste	To check operation wastes are stored and handled in accordance to the Waste	Inspection of oil leakages and waste management practices at the substations.	• 4/year	KETRACO	Included in KETRACO's operation and

Category	Aim	Method	Frequency	Implementation responsibility	Estimated cost (KSh)
	Management Plan (All sites)				maintenance budget
Ecosystem	To check whether any bird collision incidences have occurred along the transmission line corridor especially along the forest area	Field reconnaissance and community interview along the transmission line corridor.	• 2 times a year for 2 years	KETRACO	Included in KETRACO's operation and maintenance budget
	To check whether any baboons have been electrocuted along the forest area	Field reconnaissance and community interview along the transmission line corridor.	• 2 times a year for 2 years	KETRACO	Included in KETRACO's operation and maintenance budget
	To check the status of plant growth especially invasive plant species along the TL	Field reconnaissance survey along the TL	• 2 times a year for 2 years	KETRACO	Included in KETRACO's operation and maintenance budget

8 CHAPTER EIGHT: ANALYSIS OF ALTERNATIVES

8.1 Introduction

As presented in the original ESIA, during formulating the proposed project, several project alternatives were considered to ensure that the best option of project development is adopted. The consideration of alternatives is one of the more proactive approaches of environmental assessment. This process serves to enhance the project design through an examination of other feasible options instead of only focusing on the more defensive task of reducing adverse impacts of a single design.

Having re-assessed the option preferred in the original ESIA, this addendum presents an update by assessing the no option alternative, and the initial route alternative vs. varied route alternative.

8.2 The “No Action” Alternative

The ‘No Action’ alternative has been considered where the development of the 220kV transmission line from Mariakani-Dongo Kundu would not be carried out. One possible option will be to use the existing 132 kV TL network in Mombasa, but considering future demand of the Mombasa area, this network does not have sufficient capacity to support demand of Mombasa SEZ. Besides, the Mombasa SEZ will require more reliable 220 kV power supply rather than 132 kV. An alternative option may be to construct a new power station inside or near Mombasa SEZ, but that will likely entail greater environmental and social impacts due to the following reasons:

- A new power station will generate additional pollution risks such as through wastewater discharge, stack emission and hazardous wastes.
- A new power station may further stress the sensitive natural environment in the Dongo Kundu area (e.g. mangroves, mud flats and creeks) through accumulative impacts with the Mombasa SEZ.

In conclusion, the proposed Project is considered as the most appropriate option.

8.3 Alternative analysis of shortest TL route between Mariakani substation and Mombasa SEZ substation

The TL route was planned by referring to KETRACO’s route selection criteria. One of its priority criteria is to select as far as possible the shortest route between the pre-determined substations. Therefore, as an initial step, the following two routes between Mariakani substation and Mombasa SEZ substation was considered.

- Option A: TL with the longer distance from Mariakani substation and Mombasa SEZ substation
- Option B: TL with the shorter distance from Mariakani substation and Mombasa SEZ substation

Table 23: Alternative analysis of Options A and B

No	Project Aspect	Option A (Initial Route)	Option B (Varied route)
1.	Route	Mariakani substation – Mombasa SEZ substation near Mwangala Primary School in Mrongo Ndori within the SEZ	Mariakani substation – Mombasa SEZ substation in Tembo Village with the SEZ
2.	Substation	On a very steep ground unfavorable for substation	The ground has a gentle gradient favorable for the setting of a substation
3.	Distance	Approx. 53 km	Approx. 51 km
4.	Land use	Agriculture	Agriculture
5.	Impact on environment natural	Approx. 15 acres of forest clearance necessary Cuts along the forest in Lutsangani adjacent to Kaya Gandini	Approx. 4 necessary acres of forest clearance. The route cuts through the narrowest and disturbed section of the forest.

No	Project Aspect	Option A (Initial Route)	Option B (Varied route)
6.	Impact on Proposed Mwache Dam	Route is within the area of inundation for the proposed dam	The route is off the boundaries of the proposed dam
7.	Key notable impact on hydrology	Crosses river Mteza 3 times affecting 12 acres of flood plain used for coconut farming	Crosses river Mteza 3 times affecting 12 acres of flood plain used for coconut farming
8.	Impact on environment social	Resettlement of around 70 HH is estimated.	Resettlement estimated of Around 75 HH is
9.	Technical difficulties and other issues	No notable difficulties a	No notable difficulties
10.	Recommended option	Not recommended for the following reasons: <ul style="list-style-type: none"> - It will require large area of forest clearance including mangroves - Some technical issues as TL will need to cross over a mangrove/creek area 	Recommended for the following reasons: <ul style="list-style-type: none"> - Area of forest clearance is less the Option A - No need to cut mangrove - No technical difficulties

Based on the alternative analysis, Option B was the most suitable TL route mainly as it requires less forest clearance and no crossing of mangrove/creek area.

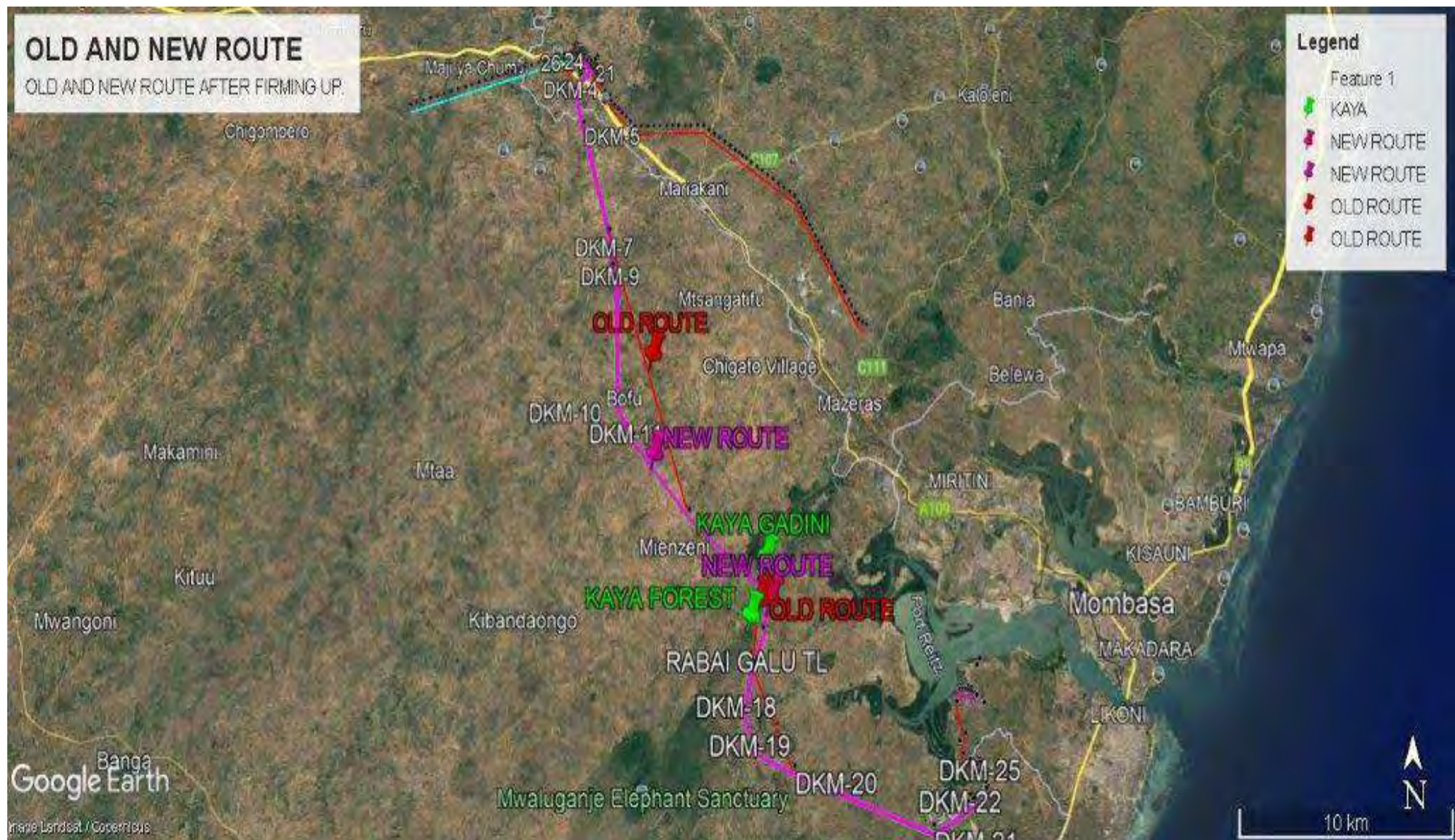


Figure 35: Map Old and New Route

9 CHAPTER NINE: RECOMMENDATIONS AND CONCLUSION

This addendum report has demonstrated the proponent willingness to minimize the impacts of the project to the environment and the society by administering several changes to the route as presented. The crossings of rivers have been reduced; a shrine identified in the original ESIA has been avoided; the Kaya Gandini has been avoided; the crossing of the community forest in Lutsangani has been comparatively reduced; and owing to the significance of Mwache Dam, the new route presented has paved sufficient way for the implementation of the dam.

Additionally, the total length of the line has been shortened by 2km from the previous 53 to 51km but within an almost-similar environmental and socio-economic baseline as that presented in the initial ESIA report.

The initial ESMaP and ESMoP for the project has been considerably updated to cater for the changes in the route.

Considering the above, this recommends for review of this addendum report to the original ESIA and issue a varied license, considering the original license has expired, and reflective of the new route and new substation site as detailed in this report.

10 : REFERENCES

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11 ANNEXES

Annex 1:- Experts Practising Licenses

Annex 2:- Key Informant Questionnaires

Annex 3: Community Questionnaires

Annex 4:- Substation Land Documentation

Annex 5: Attendance Sheets

Annex 6:- Minutes of meetings

Annex 7:- Topo Maps

Annex 1: Experts practising licence

FORM 7



(r.15(2))

**NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY(NEMA)
THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT
ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE**

License No : NEMA/EIA/ERPL/14875

Application Reference No: NEMA/EIA/EL/19271

M/S **RAMAT GODANA**
(individual or firm) of address

P.O. Box 34942-00100, NAIROBI

is licensed to practice in the

capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Lead Expert**
registration number **1747**

in accordance with the provision of the Environmental Management and Coordination Act Cap 387.

Issued Date: **5/5/2021**

Expiry Date: **12/31/2021**

Signature.....

(Seal)

**Director General
The National Environment Management
Authority**



FORM 7



(r.15(2))

NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY(NEMA)
THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT

ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE

License No : NEMA/EIA/ERPL/17035

Application Reference No: NEMA/EIA/EL/22003

M/S **Clifford Mouti Siocha**
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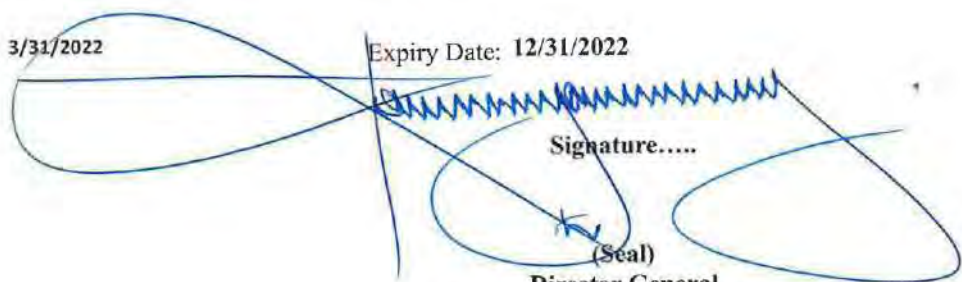
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registration number **8173**

in accordance with the provision of the Environmental Management and Coordination Act Cap 387.

Issued Date: **3/31/2022**

Expiry Date: **12/31/2022**


Signature.....
(Seal)

Director General
The National Environment Management
Authority

P.T.O.



ISO 9001:2015 Certified

Annex 2: Key informant questionnaires



Thank you for your participation

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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 9

Date: 15 / 02 / 2022

PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Life will change from nothing to something
Most of the projects will be uplifted
Everyone will rise

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

- Those who affected will suffer due to the cash situation. It may not be possible with the new change of the new plot.

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

- expect to get continuous compensation especially those whose lands are affected.



4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

It will improve life standard

5. Do you have any other comments regarding this project?

Expected to mitigate other project i.e. building of schools.

6. Please provide your contact details for purposes of authentication.

Name:	Mohamed S. Nanyo	Sector/Organisation:	INDIVIDUAL CITIZEN
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Signature		Stamp	
Date	10/03/2022		

Thank you for your participation



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KET/ENV/F/01

S/N: 8

COMMUNITY QUESTIONNAIRE

Date: / / 2022

KEY INFORMANT

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

- ① The project shall act as a source of income because some villages shall be employed.
- ② When residents have their daily bread through employment then their daily bread shall improve.
- ③ The power line of 400kv shall not put the land of cultivators under advantages to those affected. Chambers.

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

Environment will be affected for the 1st part of the new designed and proposed new lines.
 = Social and Economic impacts will affect the residents by shifting the their economic & social activities.
 → Displacement of individual to new place.
 → Loss of land and change of land site.
 → The line will be of high voltage, increases the risk to be effective.

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

→ More public sensitization from the affected individual or how to protect them from the risk to the new residential area.
 → Payment of compensation to be reasonable for one be able to provide safety.
 → Fencing of the line to avoid electricity shock.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
 If YES/NO, why?

It will benefit the community by introducing income generating companies, ease supply of electricity.

5. Do you have any other comments regarding this project?

-The project will be beneficiary to the local people.
 -The project to benefit the local community.

6. Please provide your contact details for purposes of authentication.

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Signature		Stamp	
Date	8/3/2022		

Thank you for your participation



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRES/N: 1Date: 08/03/2022**PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE**

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This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic** benefits do you think will arise from the proposed project?

⇒ Employment to local youth / human and
⇒ Small business to the local
⇒ Frequent electricity supply to both
⇒ Industries and individual
⇒ Modern State of living to some
Community

1

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

① When people are displaced due to the power line they end up losing friends and relatives.

② The power line with high voltage can be harmful in case of disaster or earthquake.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

① Involve specialists during implementation so as to avoid accidents.

② Make ^{Not} available efforts to displace many of the residents along the line.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

The S.T.L is a project which shall bring employment to our locals include improving electricity of the area.

5. Do you have any other comments regarding this project?

All the best.

NAME	MUSUMA R. SHOKA	LOCATION	MTAA
EMAIL	Isigan	OCCUPATION	ASSISTANT CHIEF
ID NO.	12897987	SIGN	46
		TEL NO	0716434167



Mwata

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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 6 Mwata n

Date: 08/03/2022

PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

- Tree cutting along the power line
- Destroy some shrine area which are in big
- Loss of business when business premises are moved
- Payment will increase income to watching the disturbance allowance

1

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

- Cutting of trees will have negative impact to both the environment and also remove their places of worship e.g. Shamba.
- Loss of income when removed from your business premises.

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

- To avoid passing through where there is big trees and sleeping centres.
- Avoid public build when passing the power line.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

It will enhance growth of economy through industries due to high Voltage power availability.

5. Do you have any other comments regarding this project?

To avail local manpower to the locals while building the project.

6. Please provide your contact details for purposes of authentication.

Name:	SAMSON CHALE JOHO	Sector/Organisation:	OOP NGAD - MWATATE
Telephone & Address:	0721520009		
Signature		Stamp	
Date	08/03/2022.		

Thank you for your participation



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 5

Date: 7/13/2022

PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic** benefits do you think will arise from the proposed project?

...EMPLOYMENT...GROWTH...ADD...VALUE...OF...THE...
...LAND...DEVELOPMENT...

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

YES, CUT DOWN OF TREES AND CROPS, DEFORESTATION

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

THE AFFECTED PEOPLE SHOULD BE PAID HOUSES, TREES AND CROPS AND TO BE REPAIRED AND THEN LAND.


4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

FOR DEVELOPMENT OF THE THREE COUNTRIES
MOMBASA, KILIFI AND KWALE COUNTY

5. Do you have any other comments regarding this project?

DURING THIS PROJECT THE RESIDENT SHOULD
BENEFIT FROM KENYA POWER BY DISTRIBUTING
POWER FOR COMMUNITY

6. Please provide your contact details for purposes of authentication.

Name:	HARRISON KATANA	Sector/Organisation:	INTERIOR
Telephone & Address:	0704836341 BOX 241 MARIKANI		
Signature		Stamp	HARRISON KATANA CHIEF MARIKANI LOCATION Date: 7/3/2022
Date	07/03/2022		

Thank you for your participation



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KET/ENV/F/01

S/N: Mwatate 10

COMMUNITY QUESTIONNAIRE

Date: 08/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

It will improve the economic status of this area. Small scale businesses will arise after PAP are paid for. Capital will be available. It will improve community health. The buildings which will be build after PAP payment will include toilets hence improvement in sanitation.

8

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

- Much divorce cases will arise due to domestic conflict which will be caused by availability of money after PAP payment.
 - Reduction in Social cohesion or peaceful coexistence will rise due to poor utilization of acquired funds.
 - Gender based violence and child abuse.
 - Increased drug use and abuse.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


YES: (1) Total Involvement of all Stakeholders
 (2) Payment should be done against a well stated and illustrated plan of use of fund.
 (3) Proper and close follow up of fund use alongside proposed plan of use.
 (4) Proper advice and education on advantages and disadvantages of good and poor use of fund.

4. In your opinion, should the project be implemented? Yes [] No []
 If YES/NO, why?

YES: With good implementation the advantages ~~are~~ ^{will} ~~overturn~~ ^{overcome} the disadvantages.

5. Do you have any other comments regarding this project?

Consult and involve NGAO Leader in every stage you take. (NGAO) Chief and assist Chief.

NAME	MARIK CHIRIMA MWINGO	LOCATION	MATUMBI SUB LOC.
EMAIL	Mariak2017@gmail.com	OCCUPATION	Assistant Chief
ID NO.	22536547	SIGN	
		TEL NO	0728213305

CHIEF
 MATUMBI LOCATION

Thank you for your participation



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 3

Date: 7/03/2022

PROJECT: 220kV MARIAKANI-DONGO KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic** benefits do you think will arise from the proposed project?

- Create job opportunities
 - Create road communication (network)
 - Create development in the area
 - Business operators will be motivated

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

- Some people will lose their land
- There will be deforestation
- There will be a lot of digging on the land.

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

- let the community be compensated,
- Generate tree planting activity,
- make proper use of the land,


4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

- Create job for the youth.
- Create road not block.

5. Do you have any other comments regarding this project?

Participate in other initiative like
assisting the schools children

6. Please provide your contact details for purposes of authentication.

Name:	Solomon K. DALLU	Sector/Organisation:	D.O.P.
Telephone & Address:	Box 104-80113 MARIKANI		
Signature		Stamp	
Date	7/3/2022		

Thank you for your participation



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 2

Date: 05/03/2022

PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic** benefits do you think will arise from the proposed project?

This project does not have adverse environmental effects. Secondly, this project will bring community interaction and the direct government offices which question/consult on environmental issues & promotes co-existence. Economically, the community will benefit from compensation for moved and P.A.P.s (Project affected persons) may use this opportunity to acquire new land and build better houses, improve livelihood.

1

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

Environmental effects - from cutting down trees that are along the line route.
Socially it will lead to movement or displacement of people from their homes.
Economically, this project may lead to under or over valuation thus some may suffer correct value for money.

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

Involve traditional values and also engage from relevant stakeholders eg. for accountancy.


4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

YES.
The above project will have more economic benefits to the entire region (Costa region) leading to employment opportunities.

5. Do you have any other comments regarding this project?

No.

6. Please provide your contact details for purposes of authentication.

Name:	NELSON KENIA KATANA	Sector/Organisation:	NGAO (ASSISTANT CHIEF - MARIKANI)
Telephone & Address:	0725 29 2599 P.O. BOX 1421 - MARIKANI.		
Signature		Stamp	HARRISON KATANA CHIEF MARIKANI LOCATION Date:
Date	08/03/2022		

Thank you for your participation



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 12

Date: 09 / 03 / 2022

PROJECT: 220kV MARIAKANI-DONGO KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

industries will be constructed and bring employment
and raise economies in the area

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

- Displacement of people whose houses are affected creating distressed relations
- Cutting trees will degrade environment

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

- Short trees/crops can be planted under the line
- Displaced persons to be considered first to enable them move out of the line.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

For development and employment purposes and increasing socio-economic sector in the area.

5. Do you have any other comments regarding this project?

I welcome the project. I request the govt/contractor to consider the affected.

6. Please provide your contact details for purposes of authentication.

Name:	Munga Ndegwa	Sector/Organisation:	Interior
Telephone & Address:	0705811862		
Signature		Stamp	
Date	9/03/2022		

Thank you for your participation



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 11

Date: 07/03/2022

PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

- Employment
 - Security

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Displacement of people

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

- Community involvement / participation

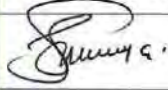
4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

Its a Government Policy for vision 2030

5. Do you have any other comments regarding this project?

Early Payments

6. Please provide your contact details for purposes of authentication.

Name:	JOSEPH SHANGA MUNDAI	Sector/Organisation:	O.O.P ASSISTANT CHIEF
Telephone & Address:	0745538512		
Signature		Stamp	ASSISTANT CHIEF MNYENZENI SUB-LOCATION P. O. Box 19, MAZERAS DATE: 09-03-2022
Date	09/03/2022		

Thank you for your participation



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 1

Date: 09/03/2022

PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic** benefits do you think will arise from the proposed project?

- It will open up the interior for more development. Supply of power is ideal for various companies, industries

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

- Displacement of people
- Damage of properties and deforestation in some areas.

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

- Compensation should be properly done.

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

Because it is important for development in the affected area.

5. Do you have any other comments regarding this project?

- Compensation has to be done as soon as possible to avoid community chaos.

6. Please provide your contact details for purposes of authentication.

Name:	NATO DZUMWANGA	Sector/Organisation:	O.O.P
Telephone & Address:	0705718368		
Signature		Stamp	
Date	09/03/2022		

Thank you for your participation

Annex 3: Community questionnaires



KENYA ELECTRICITY TRANSMISSION CO. LTD.

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KET/ENV/F/01

S/N: 69

COMMUNITY QUESTIONNAIRE

Date: 10/3 /2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

(I) Kupata malipo na hata usaidia kwa endeleza haki zetu
(II) Kupata ujuzi kwa vijana wetu

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

① Uharibifu wa mimea yetu, damaja na nyumba zetu
kutasumbua kwenye shughuli zetu.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


① Kutasumbua kutafuta makazi mapya
② Mimea iliyepo na matura tunayoyafidi kuratwa
na kutulazimu kupanda mimea jirani.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

Mradi tunalarajia vibarua kwa vijana.

5. Do you have any other comments regarding this project?

Naoomba Mradi ukikamilika vijana wapate
ajira

NAME	Hamisi Mohamed bala		LOCATION	Mbugudi	
EMAIL			OCCUPATION	Farmer	
ID NO.	26184795	SIGN			TEL NO
					0726138573

Thank you for your participation

2



KENYA ELECTRICITY TRANSMISSION CO. LTD.

KAWI COMPLEX, BLOCK B,
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P. O. Box 34942 – 00100, NAIROBI
Phone: 020 4956000, 0719018000, 0732128000
Web: www.ketraco.co.ke • email: info@ketraco.co.ke

KET/ENV/F/01

S/N: 65

COMMUNITY QUESTIONNAIRE

Date: 10/05/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, ~~53~~ km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

① Agida ya Kwana, ATIRA
② Malipo tufakayo kwetu
③ Upauzi wa viwanda zaidi kupatikan

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

① Changanoto ya Kwana
Uharibifu wa MIMIS kama vile Mingo, na etc

②

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

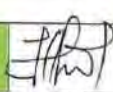
① Kutokatawa MIMIA kama hiyo kama
kupacha line wa kupita
Sehemu isiyo wa MIMIA
Mingo

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

Ningemba Wango anga Kazi zao
wawezé kuajiri vijana wa sehemu
wango pita kwani itakuwa ni vyema kwa
hizi kuwa kazi kwao kufanya kazi

NAME	Damar BAMBANY		LOCATION	MBUGUNI	
EMAIL	-		OCCUPATION		
ID NO.	672673	SIGN		TEL NO	0114853140

Thank you for your participation



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KET/ENV/F/01

S/N: 65

COMMUNITY QUESTIONNAIRE

Date: 10/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Before the project get started young people will
be employed as labor.

Some people will benefit from the cash which will
be given from the company concerned.
Infrastructure will be improved along the
project.

The proposed line will allow the people concerned
to continue with their annual farming.

8

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Some people will lose their plants and other things in the area.

Permanent structure will not be allowed along the line of the proposed project.

People will be displaced.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

The people will benefit and at the same time the people will be affected.

4. In your opinion, should the project be implemented? Yes [] ☒ No []
If YES/NO, why?

Because the youth will get employment.

5. Do you have any other comments regarding this project?

Generally people will benefit and the infrastructure will be improved.

NAME	DOLLAR ALI NASSIRO	LOCATION	MBUHO NI
EMAIL		OCCUPATION	FARMER/BUSINESSMAN
ID NO.	13838497	SIGN	NASSIRO
		TEL NO	0728211806

Thank you for your participation

2

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S/N: 64

Date: 10/03/2022

~~10~~ UP COMING OF INDIAN

- X10

- Nel.

- NA

- X/O

Thank you for your participation

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S/N: 63

- Yes the project has benefits to the community
- the project will give the community a helping in improving their well-being & economy

8

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

- impacts will be seen when the coconut or tree repayment be payed in a low costs

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


To improve the payments of the cocoanuts or trees

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

Let the project go on because many people will get jobs

5. Do you have any other comments regarding this project?

Let the project bring more other projects

NAME	SHABANI ATHUMANI KUFASA		LOCATION	MBUGUNI	
EMAIL			OCCUPATION	FARMER	
ID NO.	8409068	SIGN		TEL NO	0718324772

Thank you for your participation

2



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KET/ENV/F/01

S/N: 62

COMMUNITY QUESTIONNAIRE

Date: 09/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552), which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 24km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

*Maafaa ya mabaduu ni
kutafaa mabaduu ya
xetu
kutafaa mabaduu ya
kasi*

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

ni kwanza mato si yote
utikuwa ukirajia kwake
maji

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

in kwanza mato yote ni
fuli bure kwa sababu ya kusimama
zetu kwa ajili yetu ambayo
ingo taiti sisi kati kwetu
lakini si ni bari kwetu
Sisi

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

yes

5. Do you have any other comments regarding this project?

ni

NAME	MWER GHINBORO		LOCATION	MBUGUNI	
EMAIL			OCCUPATION		
ID NO.	10468039	SIGN	Mbit	TEL NO	0729203287



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KET/ENV/F/01

S/N: 61

COMMUNITY QUESTIONNAIRE

Date: 16/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 28km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

1) IMPROVEMENT OF INFRASTRUCTURE IN THE AREA
2) IMPROVEMENT OF OUR WELL BEING SOCIAL (FINANCIALLY) CAPABLE TO START SMALL BUSINESS
3) YOUTH IN THE AREA WILL GET EMPLOYMENT

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

1) IMAGING OF SOME UNKNOWN DISEASES
DUE TO INHALING DUST OR FUME.
2) KETRA CO DON'T COMPENSATE
PATTEN WITH HIS YOUNG SISTER
THING SMALL SISTER IS A
GOVERNMENT PROJECT
3) SOME MEN & WOMEN WILL RUN AWAY
FROM THEIR FAMILIES AFTER GETTING CASH.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

1) AWARENESS TO BE GIVEN TO
THE COMMUNITY RE THE PROJECT
PLANS
2) WITH NIDS ARE NATURE AND
TERRACE TO BE INTERVIEWED
IN THE AFFECTED AREA AND
BE TRAINED TO TRAIN OTHERS
3) OFFICE OF THE PRESIDENT TO
BE INVOLVED FROM ONSET OF PROJECT
TO THE END AND POLITICIANS TO BE INVOLVED
IN THE PROJECT

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

IT IS GOING TO BOOST THE ECONOMY
OF THE AREA
FOUR WILL GET EMPLOYMENT
FOR THAT PERIOD.

5. Do you have any other comments regarding this project?

PEOPLE ALONG THE LINE TO
BE GIVEN SOME THINGS ON MONITORING
BASE SINCE THEY WILL ALSO
BE AFFECTED BY THE DISEASES

NAME	EVANS MURNA	LOCATION	MONGUNI AND SAMBURU
EMAIL	MURUGEVAND@GMAIL	OCCUPATION	TEACHER
ID NO.	11601372	SIGN	
		TEL NO	0717682455



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KET/ENV/F/01

S/N: 60

COMMUNITY QUESTIONNAIRE

Date: 10/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

① FAIDA NA KWANZA NITAPATA KULINGANA WAEDIO
WATA PATA VIBARUNA. DIA NYUMBA IKUUNINA
NI TALIPWA NA UTAWKEZA KUJENGA NYUMBA
NZURU.

→

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

MRADI UKIPITA KUNATHARI ZITAPATIKANA
KUPITA UMBI MARADHI MENGI YATAIDRA

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

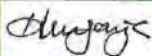
MAONI NIKWAMBA MRADI UPITISHWE NA SEAMU
AMBARO ZITAKUA HAZINA UHARIBIJI WA NIMBA
NA PIA WATU AMA WANAICH WALIPWE FIDA
KULINGANA THAMANI YA MAKI YAKE, PIA
MALIPO YADITE OFISI YA SERIKALI
SID WANA SIASA.

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

NBIO

5. Do you have any other comments regarding this project?

KWA HUYO MAONI NIKWAMBA
ALIEKARIBA NA MRADI PIA WAFIDINE
KWAANI KUWA ATHARI ZITANAKUMBA

NAME	KAMWANA KARISA BENGI		LOCATION	MBUGUNI	
EMAIL			OCCUPATION	MKWAMA	
ID NO.	5418547	SIGN		TEL NO	0729637133



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KET/ENV/F/01

S/N: 59

COMMUNITY QUESTIONNAIRE

Date: 9/3 /2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

KUINGANA NA MABU HUU H.S.A.S.U.A.I.D.I.SHA Kama
WAZAZI WAKUNA WAKO KU BORASHA WAKU KENDAPU
WAKA KANA MABU YI ZURI
KUSAKA BUKA WAKA KUNYU ZITU NI ZA UDHAO
SUKA HUU MABU MAZURU INI ZA KANA
KUNYU ZA KISASA NA KIMBO WAKA KANA KIMBO
BORA

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

MARADU HUU HIAKAPA DUA UMANASHIRI SANA
MAMA SIAI PUMU IEGUANA MIMA
NA MIMA IAKA KAKA KIANAZI KIPAZI
KUPAKUA NA UKOSIWA NA MIMA

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

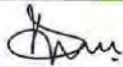
Kunyakama maradu huu utakapopita ure na utafika

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	MARADU HUU HIAKAPA DUA		LOCATION	MUGOMI
EMAIL			OCCUPATION	MKULIMA
ID NO.	26223821	SIGN		TEL NO
				0745099247



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KET/ENV/F/01

S/N: 58

COMMUNITY QUESTIONNAIRE

Date: 10 / 02 / 2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Tutafidiwa kwa pesa na hali tutakuwa
tuna laada tumamili ardhi zilizapitiwa na
maji

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

mimea miti na majengo yatatalewa
kwenye line

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

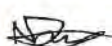
tukwa tumefidiwa hatitakuja na malafizi
ya yoyote

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

ni vizuri tukapata ajira pia

5. Do you have any other comments regarding this project?

Sina mkelezi wa maziwa Sina fungamizi

NAME	NDEGUSA CHIMERA MUNGU		LOCATION	GOLINI
EMAIL			OCCUPATION	FARMER
ID NO.	26042401	SIGN		TEL NO 0725730753

Thank you for your participation

2



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE*Community*S/N: 57Date: 10/07/2022**PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE**

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552), which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

- Development of the proposed area - which limited companies or both Government and private investors would venture in.
- Improvement on livelihood of the natives - since the money spent would enhance business activities of the people.
- Job opportunities would be created and hence both men and women would venture in.

1

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

Although there would be compensation, land would ~~be~~ have been alienated. This agricultural and livestock production would be reduced. There would be problems especially in resettlement, it would take time to cope up with the current environment inhabited there after.

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

Though land would be a big asset for the project, and the people compensation, there has to be a need for a portion of land be reserved for development purposes such as for building schools, hospitals, social halls, rescue centres, etc. The stakeholders should provide shelter amenities and facilities such as, latrines, seeds, pesticides, food, toilet facilities, pads for women, condoms, etc.

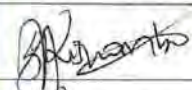
4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

At all, at the end of the day the project has to be implemented especially when the advantages outweigh the disadvantages. This at end of the project, the benefits would be obtained after the work.

5. Do you have any other comments regarding this project?

There has to be a binding contract between land owners and stakeholders to prevent any malice or malpractices happening within the life of the project.

6. Please provide your contact details for purposes of authentication.

Name:	KUSHIRO SHIRO	Sector/Organisation:	COUNTY GOVERNMENT OF KWALE
Telephone & Address:	0723525900		
Signature		Stamp	
Date	19/3/2022		

Thank you for your participation

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S/N: 56

Date: 10/03/2022

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

ECONOMIC BENEFITS

- [illegible]

- №

- N/A

- No

Thank you for your participation



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KET/ENV/F/01

S/N: 55

COMMUNITY QUESTIONNAIRE

Date: 10 / 03 / 2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552), which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

I really appreciate for this project in this area. Surely it's a sign of development and the way of engineering of the people of this area of the country. The construction of the lines of the area is not only going to develop but the villagers are going to benefit from the project. E.g. some are going to earn and being paid for their labour and services by the area.

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Some of the lands will be occupied and not in use for any construction or any development. Trees are also to go but be affected but only on the line track.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

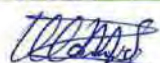
N/A

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

Mainly for development and empowerment

5. Do you have any other comments regarding this project?

We are welcome and keep coming for this project and the development of this land.

NAME	MOHAMED SULEIMAN HASSAN		LOCATION	KITEJE	
EMAIL	Hamis.mohamed85@gmail.com		OCCUPATION	BUSINESS MAN	
ID NO.	1596458	SIGN			TEL NO
					0719507792

Thank you for your participation

2



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRES/N: 54

Community

Date: 10/03/2022**PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE**

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

- Social benefit - Supply of power to Community
- Economic benefit - Economic will improve

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Social - shortage of land

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

- pay better to affected people

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

To be implemented shortest time possible

6. Please provide your contact details for purposes of authentication.

Name:	<i>Athuman, J. J.</i>	Sector/Organisation:	<i>CEIC</i>
Telephone & Address:	<i>0723029427</i>		
Signature	<i>[Signature]</i>	Stamp	
Date	<i>10/3/2022</i>		

Thank you for your participation



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KET/4/ENV/14G/36

KET INFORMANT QUESTIONNAIRE COMMUNITY

S/N: 53

Date: 10/3/2022

PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic** benefits do you think will arise from the proposed project?

IS A VERY GOOD PROJECT AS PER PER THE
DAY TO DAY AND IT SHOULD PROCEED AS IT WAS PLANNED

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

THE PROPOSED PROJECT IS VERY IMPORTANT AS IT SHOWS THAT THE GOVERNMENT HAS POSITIVE & SOCIAL DEVELOPMENT AS SOON AS POSSIBLE

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

N/A

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

6. Please provide your contact details for purposes of authentication.

Name: ABDUL SWATE	Sector/Organisation:
Telephone & Address: 0727155869	
Signature [Signature]	Stamp
Date	

Thank you for your participation



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KET/ENV/F/01

S/N: 52

COMMUNITY QUESTIONNAIRE

Date: 07/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552), which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

-1) The project is likely to interfere with the environment by displacement of the indigenous people.
- There will be social misunderstanding among the natives.
- If well paid the natives will benefit by improving their lives.

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

- The natives will face problems by looking for new areas to start the new structures.
- The economic status will take time.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

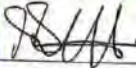
- The Ketrac is supposed to create awareness to the concerned people by conducting seminars.

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

- It is going to improve peoples lives by creating employment.

5. Do you have any other comments regarding this project?

- Let it continue.

NAME	DANIEL DAKU		LOCATION	MWAVUNBO	
EMAIL	danielwani@gmail.com		OCCUPATION	RETIREE	
ID NO.	2213893	SIGN		TEL NO	0720480828

Thank you for your participation

2



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KET/ENV/F/01

S/N:

61

COMMUNITY QUESTIONNAIRE

Date: 07/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 28km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

(1) Employment - people will be employed
 (2) After completion people will have money to
 do their things like building houses and
 educating their kids

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

People will be evacuated from their pieces of land.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


Actually, after evacuation and compensated, people have to do their usual projects in life like buying land elsewhere, building permanent house, and educating their kids.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

It should be implemented to raise the living standards of the people.

5. Do you have any other comments regarding this project?

No.

NAME	RANA KARANI MERI		LOCATION	MWANDA	
EMAIL			OCCUPATION	EMPLOYED (AGI)	
ID NO.	20897013	SIGN		TEL NO	0715037403



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KET/ENV/F/01

S/N: 50

COMMUNITY QUESTIONNAIRE

Date: 07/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

None. N/A. I will face problems by looking for new ones.

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

The status will face problems by new ones to save the

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

Kentucky is supposed to come answers to the concerned people.

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

Yes, going to prove people living

5. Do you have any other comments regarding this project?

NO

NAME	MADON JIRA EBORE	LOCATION	Mwimbo
EMAIL	✓	OCCUPATION	FARMER
ID NO.	31693237	SIGN	MAO
		TEL NO	0114229744



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KET/ENV/F/01

S/N: 49

COMMUNITY QUESTIONNAIRE

Date: 07/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

The country will be saved of power. People will be employed especially the youths. Most of the youths will have better living standards than before.
Many areas in the country (Kenya) will try hard to install electricity in their compounds.

- Electricity consumption will result along the line and I suggest the company to connect the public after the completion of the project.

- I have already answered the problem identified in question 2.

- The project is beneficial to all the winners.
The funding should be covered and the development
of the country (India)

Thank you for your participation



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KET/ENV/F/01

S/N: 48

COMMUNITY QUESTIONNAIRE

Date: 7/8 /2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

- Infrastructure in our area will improve thus improving the life standard of our local.
- Our business will open up.
- These area is remote thus bringing up electricity to our area will light up these area.
- Creation of job opportunities through the project as we have said more than 30 people will be employed.
- For those who will benefit through payment those money they will use to up their living stand and

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

- Displacement of Peoples may lead to conflicts
- For those displaced may find new homes which will be difficult to adapt
- It may lead to war against other people coz if the money spent others will want a big share.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

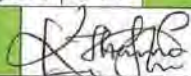
- We need to find good solutions for the payments so that may be shared equal among family members
- People need to be advised on the importance of these project.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

- Because it will turn these area to be urban center and businesses will open up coz all of the area will be having electricity.
- So opportunities will open up

5. Do you have any other comments regarding this project?

No other comments

NAME	DAMA K. KADZINGO		LOCATION	MWARUMBU	
EMAIL	Rmosehy.Love@gmail.com		OCCUPATION	CLERK, DRIVER	
ID NO.	2831 0597	SIGN		TEL NO	0717 156018

Thank you for your participation



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KET/ENV/F/01

S/N: 47

COMMUNITY QUESTIONNAIRE

Date: 07/03 /2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

The project is likely to interfere with the environment by the construction of the 220kV line.

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

The natives will have problems by looking for new ones to start the new structure

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


the measures i.e. guided to start new ones to the concerned people by conducting seminars

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

It's going to improve people's lives through employment

5. Do you have any other comments regarding this project?

NO

NAME	HASSAN KATIMBE		LOCATION	MWAMBA
EMAIL			OCCUPATION	Farmer
ID NO.	8411602	SIGN		TEL NO
				0721468084

Thank you for your participation



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KET/ENV/F/01

S/N: 46

COMMUNITY QUESTIONNAIRE

Date: 7/13 / 2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

THIS PROJECT IS GOOD FOR US BECAUSE
WE MAY HAVE SMALL BUSINESS
AROUND OUR HOMES, SINCE POWER
WILL BE AVAILABLE IN NEAR FUTURE

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

THE PROJECT IS GOOD FOR DEVELOPMENT AT DUD KAKUANI SUB-LOCATION. WE MAY HAVE SMALL BUSINESS ALONG DUD HOMES BUT I FEAR THE HEAVY DUST FROM THE DIGGERS SO WATER LOBBY MUST BE PAIDING WATER ALWAYS.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

AS FAR AS I KNOW THE PROJECT IS GOOD FOR GANDERUKE TO BE DUSTY HEATH SINCE THERE WILL BE A LOT OF DUST SO I SUGGEST A WATER LOBBY TO BE PAID ALONG THE WORKING TRACKS SO AS TO STOP THE DUST WHICH WILL BE FLOWING ALL OVER THE PATH RUN BY THE HEAVY TRACTORS.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

THE PROJECT SHOULD BE IMPLEMENTED AT KAKUANI SUB-LOCATION SO THAT WE CAN GET POWER IN OUR HOMES ETCETERA.

5. Do you have any other comments regarding this project?

YES MY COMMENTS REGARDING THIS PROJECT IS THAT WE MAY DO SMALL BUSINESS AS FAR AS POWER IS WITH US.

NAME	MR. WILSON THWANGARE		LOCATION	MWAVUMB
EMAIL			OCCUPATION	
ID NO.	2177800	SIGN	TEL NO	0768414077



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KET/ENV/F/01

S/N: 48

COMMUNITY QUESTIONNAIRE

Date: 07/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

These project will create job opportunity, it will have good us that it will employ more than 30 people in our area.

Our environment will change because some of our wells use electricity to pump water.

Infrastructure will increase in our areas.

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

- Some people will be displaced leaving their homes so that they will find new homes.
- There will be home sickness for those people displaced.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


Payment of the displaced people or affected areas

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

Yes it should be implemented because there are areas in the area which are with electricity in our area it will bring an impact.

5. Do you have any other comments regarding this project?

No other comments.

NAME	Mwambi Mwangi Mwangi		LOCATION	Mwambi Mwangi	
EMAIL	mwangi		OCCUPATION	Business	
ID NO.	13628515	SIGN		TEL NO	0705671032



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KET/ENV/F/01

S/N:

44

COMMUNITY QUESTIONNAIRE

Date: 7/3/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

change life to once paid

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

No

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

No

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

To create more jobs.

5. Do you have any other comments regarding this project?

No

NAME	NGAO CHIRU MWEMBE		LOCATION	MWAVUMBO
EMAIL			OCCUPATION	MASON
ID NO.	24486005	SIGN	TEL NO	0708894527



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KET/ENV/F/01

S/N: 43

COMMUNITY QUESTIONNAIRE

Date: 7/8/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

It will improve our living standards since it may create jobs opportunities

8

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

I don't think it there will be any environmental or social negative effects.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

No suggestions yet no effects.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

It will bring positive effects in our living standards and promote our economy.

5. Do you have any other comments regarding this project?

No comments.

NAME	Hawisi Mbao		LOCATION	Mwawumbo
EMAIL	N/A		OCCUPATION	Mason
ID NO.	32319987	SIGN	Hawisi	TEL NO
				0713123347

Thank you for your participation

2



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KET/ENV/F/01

S/N:

42

COMMUNITY QUESTIONNAIRE

Date: 7 / 03 / 2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

It will change our economy let
we will be compensated and create job
opportunities

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

NS

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

NS

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

5. Do you have any other comments regarding this project?

NS

NAME	Buru YAMA	LOCATION	MWAVUMBO
EMAIL		OCCUPATION	MASON
ID NO.	11600957	SIGN	BURU
		TEL NO	0712457987

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KET/ENV/F/01

S/N:

41

Date: 07/03/2022

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1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

N/A

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	BAGALA DALU	LOCATION	MWAVU MBO
EMAIL	104 MARIKANI	OCCUPATION	
ID NO.	8393776	SIGN	TEL NO
			0729646273

Thank you for your participation

2



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KET/4/ENV/14G/36

KEY INFORMANT QUESTIONNAIRE

S/N: 40

Date: 08/03/2022

PROJECT: 220kV MARIKANI-DONGO KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

COMMENTS (please use separate sheets if you wish)

1. In your opinion, what **Environmental, Social and Economic** benefits do you think will arise from the proposed project?

In my opinion in Environmental benefits that will rise are:

1. Due to the payments to the company will pay the owners we will be able to take care of the environment.
2. Environmentally we will be promoted.

2. In your opinion, what Environmental, Social and Economic negative impacts do you think will result from the proposed project?

→ Sidefm should be cared for the locals or people living

→

3. Do you have any suggestions of measures to mitigate problems identified in question 2 above?

Operator must have regular monitoring in the -

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

It promotes the economy of our country.

5. Do you have any other comments regarding this project?

The company should identify the locals to have post in the company who belong

6. Please provide your contact details for purposes of authentication.

Name:	Samuel Ngau	Sector/Organisation:	Pastor
Telephone & Address:	0703859681		
Signature		Stamp	
Date			

Thank you for your participation



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KET/ENV/F/01

S/N:

39

COMMUNITY QUESTIONNAIRE

Date: 8/2/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Faida za miadi huo kwa mae
Kufadisha mwanachi kwa kupata vibaya
awa Kazi

8

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Kula Kute mbelwa lino lina

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

alamu kugawa maddara kwa masana

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

Hina kubaliana lino motadi kwasababu
huna gendeleo

5. Do you have any other comments regarding this project?

Have no comment regarding this project.

NAME	Morris Nyawa Tsuma		LOCATION	MTAA	
EMAIL			OCCUPATION	ELDER	
ID NO.	3152611	SIGN	Thid		TEL NO
				0729032349	

Thank you for your participation

2



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KET/ENV/F/01

S/N: 38

COMMUNITY QUESTIONNAIRE

Date: 17 / 03 / 2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

It will create job opportunities

It creates Rural-urbanisation which shall enhance living standards

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

(1) Always to take caution in the affected areas.

(2) Affect normal way of living as its social environment would have been affected.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

- Should organise several workshop in order to create much awareness amongst the people.

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

In consideration with the Vision 2030, the project has to take place in order to allow more developments amongst its people hence to create large number of people who are independent.

5. Do you have any other comments regarding this project?

The Organisers should put much consideration to the locals who will be directly affected.

NAME	JUMA MWAMZOMBA	LOCATION	CONA A
EMAIL	sumangow92@gmail.com	OCCUPATION	Resident.
ID NO.	28752217	SIGN	TEL NO 0731420676

Thank you for your participation

2



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KET/ENV/F/01

S/N: 31

COMMUNITY QUESTIONNAIRE

Date: 8/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 24km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

I don't think there will be any change in our environment and we are going to benefit as Kenyan citizens.

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

The negative impact that I think will arise is: 1. Payment of the land owners and employment of our youth.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

My suggestion is: Let the land owners be fully paid and our youth be employed.

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

I think the project will be implemented because it is funded by our government.

5. Do you have any other comments regarding this project?

I don't have any comments

NAME	FRANCIS MWAMVULA		LOCATION	MTAA LOCA	
EMAIL			OCCUPATION	FARMER	
ID NO.	11367609	SIGN	<i>FD</i>	TEL NO	0712028801

Thank you for your participation

2



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KET/ENV/F/01

S/N: 36

COMMUNITY QUESTIONNAIRE

Date: 8/3/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 34km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

I think there will be good environmental, social and economic benefits.

8

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Social and economic negative impacts will not be so bad according to my opinion.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


No, I don't have any suggestion of measures to mitigate problems.

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

Because we shall get more jobs.

5. Do you have any other comments regarding this project?

N/A

NAME	Johnson G. Ghilarte		LOCATION	Mtaa	
EMAIL			OCCUPATION	Farmer.	
ID NO.	5425659	SIGN		TEL NO	0725062287

Thank you for your participation

2



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KET/ENV/F/01

S/N: 35

COMMUNITY QUESTIONNAIRE

Date: 8 / 3 / 2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

5000 It may lead to employment to the people in within
people will earn an income from the project after
being employed

8

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

- Social*
- ✓ ~~loss~~ Destruction of resources.
 - ✓ It may lead to loss of life due to hanging wires.
 - ✓ The people may not be paid.
 - ✓ People may lose their fertile agricultural lands.
- Environ*
- ✓ ~~loss~~ Environmental pollution.
 - ✓ land degradation

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

- ✓ people should be informed before so that they can prepare themselves for migration.
- ✓ During construction of the project, machines that will be used should not be caused much destructions.

- The machines should not cause pollution to the environment.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

~~This is because it will be~~
It will benefit both economical, socially and even countrywide.

5. Do you have any other comments regarding this project?

- ✓ ~~creation~~ off employment

NAME	OMAR BEJA	LOCATION	M TAA
EMAIL	omar@gmail.com	OCCUPATION	BOFU-B
ID NO.	27503366	SIGN	0703763473
		TEL NO	0703763473

Thank you for your participation

2



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KET/ENV/F/01

S/N: 34

COMMUNITY QUESTIONNAIRE

Date: 05/03 /2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Environmental - payment to people on the proposed route will be done.

Social - It may lead to creation of employment which will rise living standard of people.

Economic - agricultural activity will be continued in the proposed part.

8

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Environmental - construction of houses will be burnt.

Social - displacement of people which will lead to difficulties in searching of other places.

Economic - Quarrying on the line will be burnt which will lead to loss of jobs on the proposed part.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

Environmental - people who will be displaced should be given in another area.

Social - people should be paid properly in the proposed area.


Economic - Quarryers should also be paid so that they can get another project.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

To avoid shortage of power on the country.

5. Do you have any other comments regarding this project?

To increase employment shortage.

NAME	Haraka magongo		LOCATION	BORU & MTAA
EMAIL			OCCUPATION	
ID NO.	37273566	SIGN		TEL NO. 0742373219

Thank you for your participation

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KET/ENV/F/01

S/N: 33

COMMUNITY QUESTIONNAIRE

Date: 08/03 /2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 13km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Environment -
Social - People can be employed.
Economic - If the land has crops or plants.

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Environment - People in the Environment may be affected by electricity

Social -

Reserve Economic - The electricity may affect the crops

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

- 1. When the*
highest is the distance of the electricity
2. When is the purpose of the electricity.

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	PURITA LUNNO		LOCATION	MTAA	
EMAIL			OCCUPATION	BOFU B	
ID NO.	40262855	SIGN	<i>[Signature]</i>	TEL NO	012704264

Thank you for your participation

2



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KET/ENV/F/01

S/N: 32

COMMUNITY QUESTIONNAIRE

Date: 5/3/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, ~~53~~ km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

I think the company will rise some charge of job.

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Nikupote maendeleo
Kwa jamii yetu ya DDTU Sub station

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

My suggestions is that the company should
be care full not to make same accident

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

5. Do you have any other comments regarding this project?

Am MROMI NI kuhakikisha Mbadhi utawadhiwa
Kwa njia inayotakiwa kwa waathirika

NAME	CHOMERA CHIMOYO	LOCATION	M-TAA
EMAIL		OCCUPATION	FARMER
ID NO.	21611374	SIGN	Ju
		TEL NO	0728738386

Thank you for your participation

2



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KET/ENV/F/01

S/N: 31

COMMUNITY QUESTIONNAIRE

Date: 09/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552), which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, ~~53~~ ³⁴ km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

The ban on fishing will not be implemented

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	Emily M JOHN		LOCATION	Kasemeni
EMAIL			OCCUPATION	
ID NO.	23869803	SIGN		TEL NO
				0758553326



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KET/ENV/F/01

S/N:

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COMMUNITY QUESTIONNAIRE

Date: 09/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

The beneficiaries will get
information.

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2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	HDEGWA MUNGA		LOCATION	KASAMENI
EMAIL			OCCUPATION	
ID NO.	10983102	SIGN		TEL NO
				0768247820

Thank you for your participation

2



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KET/ENV/F/01

S/N: 09

COMMUNITY QUESTIONNAIRE

Date: 09/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

According to our opinion the project will change people's life e.g children will study at night.

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

it will affect our trees and houses

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

All in all we have to accept the project.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

because of the benefits and development.

5. Do you have any other comments regarding this project?

No

NAME	SAID RAI NYONDO		LOCATION	KASEMENT
EMAIL			OCCUPATION	
ID NO.	25812288	SIGN	RAI	TEL NO 0769913742

Thank you for your participation

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KET/ENV/F/01

COMMUNITY QUESTIONNAIRE

S/N: _____

Date: 09/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

(1) Will produce jobs
(2) Will produce new buildings

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	STEPHEN T. MWANGOLE		LOCATION	MAKOBENI
EMAIL			OCCUPATION	CARPENTER
ID NO.	2901336	SIGN	TEL NO	0748887877
				



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KET/ENV/F/01

COMMUNITY QUESTIONNAIRE

S/N: _____

Date: 9/13 /2022**PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE**

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Economic will be felt from low level to high level

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

It is will result to broken of household to different people.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

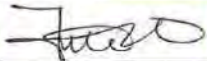
We have no suggestions because this is the parent of the project.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

No we do not have any comments

NAME	Ndoro Njumba		LOCATION	Kasemweni	
EMAIL			OCCUPATION		
ID NO.	21139529	SIGN		TEL NO	0723955929

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KET/ENV/F/01

COMMUNITY QUESTIONNAIRE

S/N: _____

Date: 9/3 /2022**PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE**

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

(i) They will be employment for the local
 ii: People will benefit from the electricity

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

- i) There will be loss of trees on the ground
 ii) It can result removal of houses
 (iii) Shrub and grove of the local owners might be disturbed

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

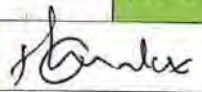
- (i) ~~to be~~ may be to change the line of the electricity
 (ii)

4. In your opinion, should the project be implemented? Yes [] No []
 If YES/NO, why?

Yes because it's part of development in the area


5. Do you have any other comments regarding this project?

The project should continue so that it can benefit the locals

NAME	Samuel Wale		LOCATION	Mariakani
EMAIL	nil		OCCUPATION	nil
ID NO.	28603410	SIGN		TEL NO
				0724480191

Thank you for your participation

VILLAGE EL DER
GWEDE BEGWEDE



KETRACO
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KET/ENV/F/01

S/N: _____

COMMUNITY QUESTIONNAIRE

Date: 7/10/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

1. Provide jobs
2. To reduce poverty

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

1. Disturbance

2. Dust

3.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

1. To change the line electricity

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

Simple because of community will benefit from this project.

5. Do you have any other comments regarding this project?

My comments is the project should be fast and clear when compensation is done.


NAME	PWEDE. DE. PWEDE		LOCATION	KASENENI	
EMAIL			OCCUPATION		
ID NO.	2211405	SIGN		TEL NO	0712449097

- 4518

- 71A

- The project will provide jobs to jobless people

- No

NAME	NYONKO KIBALO		LOCATION	Mwatote
EMAIL			OCCUPATION	B/mau
ID NO.	9395799	SIGN		TEL NO 0722937173

2



KENYA ELECTRICITY TRANSMISSION CO. LTD.

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KET/ENV/F/01

COMMUNITY QUESTIONNAIRE

S/N: Mwata 2Date: 08/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

- 1- ITABORESHA MAZINSIRA
- 2- ITALEIA KARIBU JAMU
- 3- ITABORESHA UCHUMI

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

NO

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

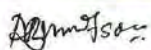
NO

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

Yes

5. Do you have any other comments regarding this project?

NO

NAME	STEPHEN MBAG NDEME		LOCATION	MWAIAIE	
EMAIL			OCCUPATION		
ID NO.	5429166	SIGN		TEL NO	0725717086



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KET/ENV/F/01

S/N: 15

COMMUNITY QUESTIONNAIRE

Date: 2 / 3 / 2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 12km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

The proposed project will be very beneficial to the particular area where the project will be executed.

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

The community will benefit with the project

5. Do you have any other comments regarding this project?

N/A

NAME	WILLIAM KIRUMU		LOCATION	MIRANDE	
EMAIL	WILLIAM.KIRUMU@GMAIL.COM		OCCUPATION	CONSTRUCTION (CON)	
ID NO.	11376887	SIGN		TEL NO	0723215259

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S/N: 14

Date: 7 / 3 / 2022

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (**Ref: NEMA/EIA/5/2/1552**) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 18km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Handwritten signature: *NA*

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

The community will benefit in so many ways from the project

5. Do you have any other comments regarding this project?

N/A

NAME	Khamis Bubu		LOCATION	MIANGONI	
EMAIL			OCCUPATION	BUSINESS	
ID NO.	21450059	SIGN		TEL NO	0710864319



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KET/ENV/F/01

S/N: 13

COMMUNITY QUESTIONNAIRE

Date: 7/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 24km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

According to the proposed Measurement of the
Recommended Measurement, the meters given
by the officers, we doubt.

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Because it's not for the first time to be implemented in our community, and we have not seen any damage or

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

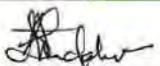
No any problems.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

Because it benefits the holy community as a whole.

5. Do you have any other comments regarding this project?

No looking forward for the project to be implemented.

NAME	ABDULLAH MUDARI		LOCATION	MARIKANI / MURUKANI	
EMAIL			OCCUPATION	DESIGNER	
ID NO.	10429699	SIGN		TEL NO	0785258158



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KET/ENV/F/01

S/N: 12

COMMUNITY QUESTIONNAIRE

Date: 7/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 12km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

According to the meters given by the board as from forty one meters, we don't think it will be safer for the community.

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

Since it's for the third time in our community for a project familiar to this and no any harm.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


No any problems seen so far.

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

for the project it's not for the first time, and we have not seen any damages.

5. Do you have any other comments regarding this project?

No Comments so far.

NAME	Mwiza Bwiba		LOCATION	MARIKANI	
EMAIL			OCCUPATION	N/A	
ID NO.	1086557	SIGN		TEL NO	0725338747
	0725338741				



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S/N:

COMMUNITY QUESTIONNAIRE

Date: 7/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 17km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Environmentally the village will have light
socially will be having families and houses in
the area
Economically with business will boom
in the area

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

No Negative Impact in the three mentioned aspects

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

N/A

4. In your opinion, should the project be implemented? Yes [☒] No [☐]
If YES/NO, why?

The project should be implemented so that we can develop our communities

5. Do you have any other comments regarding this project?

Project should start asap

NAME	JAMES NGUNDI EDWARD	LOCATION	MARIAKANI
EMAIL	edwardjamesngundi@gmail.com	OCCUPATION	FARMER
ID NO.	9771738	SIGN	
		TEL NO	0707736601



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KET/ENV/F/01

S/N:

10

COMMUNITY QUESTIONNAIRE

Date: 09/03/2022

PROJECT: 220kV MARIAKANI DONGO-KUNDU TRANSMISSION LINE

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 24km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

The community will gain some amount of money.

create employment to our youth

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	Jane Makeni JASU49 Makeni		LOCATION	Kasemani
EMAIL			OCCUPATION	P/Farmer
ID NO.	27013705 27555922	SIGN		TEL NO 0768057670 0112024332



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KET/ENV/F/01

S/N:

9

COMMUNITY QUESTIONNAIRE

Date: 29/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 34km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?


Hakika hika lahama kupata huu muradhi
to katayaki na wakaya lake kwa muradhi
huu
Hakuna lolote litakalatakaa kwa kijiji hiki
Diyo TABU Chikako
Nambar ya simu 07 20439300

- 27/12

- 21

- 15/11

- 27 IX

NAME	Diyu daby Chirako		LOCATION	Kasemeri	
EMAIL			OCCUPATION	P/Famer	
ID NO.	6729078	SIGN		TEL NO	0120439300

3



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KET/ENV/F/01

S/N: _____

COMMUNITY QUESTIONNAIRE

Date: 9 / 03 / 2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

1. Availability of employment
2. It will encourage saciation
3. It will lead to poor harvest
4.

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

1. It will lead to loss of land
2. It will lead to loss of fertility of the land

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

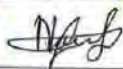
1. When they pay
2. The project when they pay enough money

4. In your opinion, should the project be implemented? Yes ☒ No ☐
If YES/NO, why?

It will lead to development

5. Do you have any other comments regarding this project?

No

NAME	Juma MDOE		LOCATION	KASEMENI
EMAIL			OCCUPATION	
ID NO.	25102436	SIGN		TEL NO 070615006

I thank you for your participation

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

~~Disrupt~~
- Disrupt of the villagers

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

- To move the wire lines to another way.

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

It should continue, so that it can give employment to the villagers.

5. Do you have any other comments regarding this project?

Since it will benefit the villagers the project should continue.

NAME	CHIZI MUKONO		LOCATION	KASEMENI	
EMAIL	NIL		OCCUPATION	NIL	
ID NO.	35377916	SIGN	com	TEL NO	0708805869



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KET/ENV/F/01

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COMMUNITY QUESTIONNAIRE

Date: 7 / 3 / 2022**PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE**

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Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 53km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (**Ref: NEMA/EIA/5/2/1552**) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, ~~28~~ 27 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Blank lined paper with a signature in the center.

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	SILASUS KARISA KAILO		LOCATION	MIFANGONI	
EMAIL			OCCUPATION		
ID NO.	23377482	SIGN		TEL NO	0711862770

KAWI COMPLEX, BLOCK B,
POPO LANE, OFF RED CROSS ROAD, SOUTH C.
P. O. Box 34942 – 00100, NAIROBI
Phone: 020 4956000, 0719018000, 0732128000
Web: www.ketraco.co.ke - email: info@ketraco.co.ke

S/N: 5

Date: 07/03/2022

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

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This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

.....

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

N/A

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?


N/A

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	Richard Chumvu		LOCATION	MITANGWI	
EMAIL			OCCUPATION		
ID NO.	4991872	SIGN		TEL NO	0768066117



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KET/ENV/F/01

COMMUNITY QUESTIONNAIRE

S/N: _____

Date: 09/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552), which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

For those who will be
passing over area with be
border Economically to the land
route will be

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

The negative thing is that the land will be divided in 2 different parts

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

The line to be placed on a long railway line where no much land is subdivided

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

Yes and those affected be paid well

5. Do you have any other comments regarding this project?

Let the project provides benefit for locals

NAME	SHADRACH Mwap Dye		LOCATION	Mariakani
EMAIL	glan.241@gmail.com		OCCUPATION	Welder
ID NO.	23 21 142	SIGN	TEL NO	0720032587

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KET/ENV/F/01

S/N: _____

Date: 9 / 03 / 2022

Kenya Electricity Transmission Company Limited (KETRACO) is a 100% Government owned state corporation that was incorporated on 2nd December 2008 and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. Its mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission lines and regional power interconnectors that forms the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines and their associated substation include 132kV, 220kV, 400kV and 500kV (HVDC).

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This questionnaire acts as a guide for the respondent to provide relevant information on the proposed project. All the information obtained shall be used entirely for the proposed study and shall be treated confidentially. We appreciate your cooperation and thanks for your willingness to participate in this exercise

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

N/A

- None

- Kuna sababista lompunguazhi' wa shamba

- ...D. 10. 10. 10.

- HMO ya Kwanza TOSHA

Thank you for your participation



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KET/ENV/F/01

COMMUNITY QUESTIONNAIRE

S/N: _____

Date: 09/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (Ref: NEMA/EIA/5/2/1552) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 14km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long.

To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

Kufu Kufu wa mawaddele ya Kuchini
Katusu kimo jishimu ya mawaddele
Kufu Kufu sababu ya mawaddele
wote pata kazi

E

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

- Kwa Sababu ya Mradi -
 - Wenguzi watapeleka wagonjwa kwa mchanganika watu wa mradi
 - Ufungu wa Mvua kwa sababu ya mti wa utakata.

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

Kuwe na uhamasishaji juu ya ugonjwa wa ukwi.

4. In your opinion, should the project be implemented? Yes ☒ No ☐
 If YES/NO, why?

Utaleta maendeleo ya kichomi wa eneo la mradi.

5. Do you have any other comments regarding this project?

No.

NAME			LOCATION	Shop keepers	
EMAIL			OCCUPATION		
ID NO.	12488804	SIGN	[Signature]		TEL NO
				0710592369	

Thank you for your participation



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KET/ENV/F/01

COMMUNITY QUESTIONNAIRE

S/N: _____

Date: 09/03/2022

PROJECT: 220kV MARIKANI DONGO-KUNDU TRANSMISSION LINE

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To ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the Environmental and Social Impact Assessment (ESIA) for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation.

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COMMENTS (please use separate sheets if you wish) Do you prefer to have the question as far and wide broad?

1. In your opinion, what **Environmental, Social and Economic benefits** do you think will arise from the proposed project?

What they have done is
OK - I can say that they have a good thing

2. In your opinion, what **Environmental, Social and Economic negative impacts** do you think will result from the proposed project?

good results *We have got every*

3. Do you have any suggestions of **measures to mitigate problems identified** in question 2 above?

because *They will give every big problem*

4. In your opinion, should the project be implemented? Yes [] No []
If YES/NO, why?

N/A

5. Do you have any other comments regarding this project?

N/A

NAME	<i>John Mwere</i>		LOCATION	<i>CHIMANGO</i>	
EMAIL			OCCUPATION		
ID NO.		SIGN	<i>John</i>	TEL NO	

Annex 4: Substation Land Document



**SPECIAL
ECONOMIC
ZONES
AUTHORITY**

UAP Old Mutual Tower, 14th Floor, Upper Hill Road
P.O Box 30418-00100, GPO
Nairobi, Kenya
Tel: +254 20 7863971
Email: info@sezauthority.go.ke
Website: www.sezauthority.go.ke

Office of the Chief Executive Officer

When replying please quote:

Ref: SEZA/DEV/DONGOKUNDU Vol. 2

Date: 12th July, 2021

FCPA Fernandes Barasa, OGW

Managing Director

Kenya Electricity Transmission Co. Ltd

KAWI Complex South C

NAIROBI

Dear Sir

**REF: LOCATION OF DONGO KUNDU SUBSTATION FOR THE MOMBASA SPECIAL
ECONOMIC ZONE DEVELOPMENT PROJECT(SEZ)**

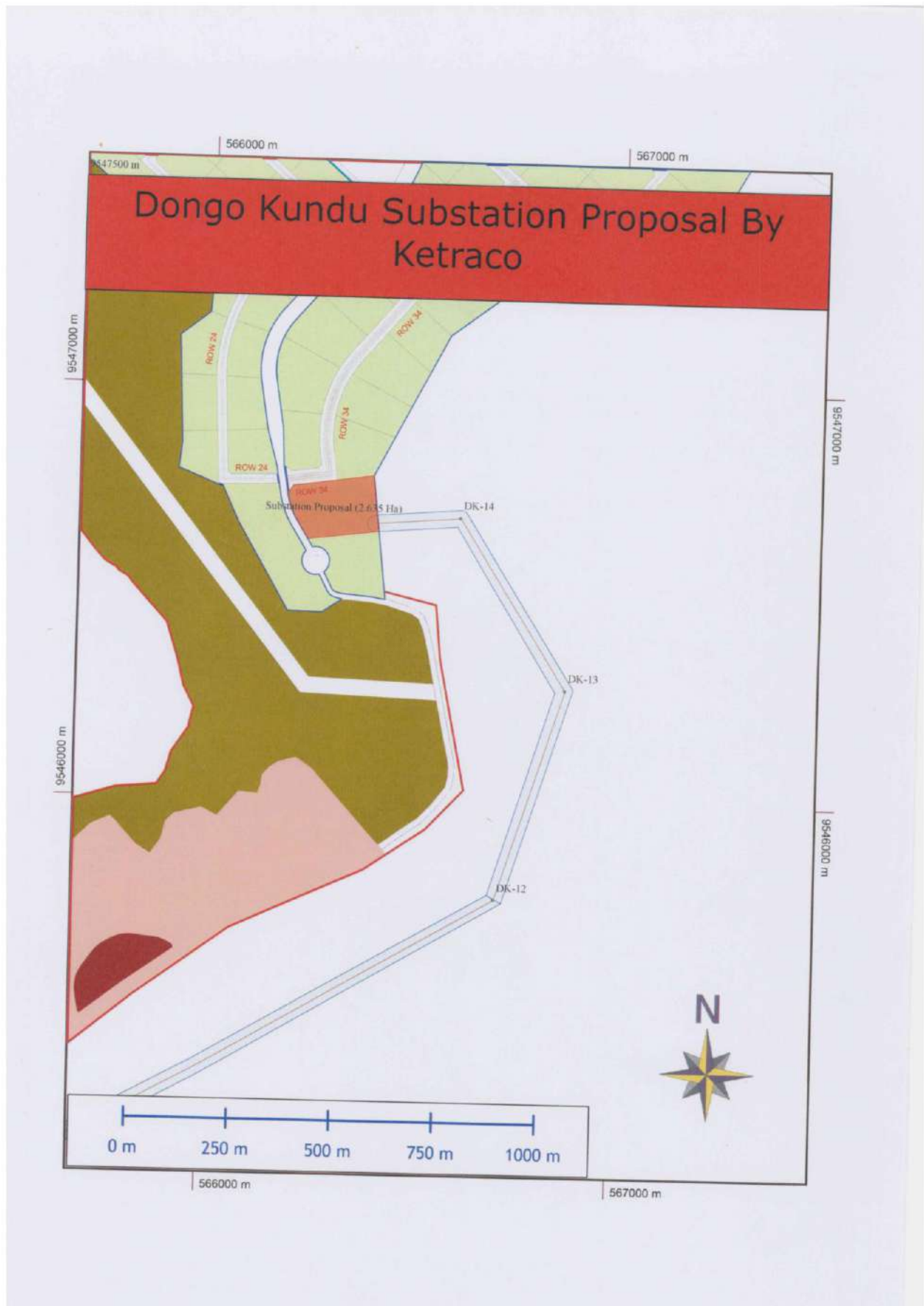
Reference is made to your letter Ref. KET.4A/3/08/AM/vnm/002 dated 24th June, 2021 regarding the above-mentioned subject. SEZA appreciates the effort made by KETRACO to locate the substation within the indicated area.

We have reviewed the alternative parcel identified by KETRACO as being more suited to the technical requirements. SEZA has approved the recommended substation location as proposed in the attached drawing.

Yours Sincerely,

Dr. Meshack Kimeu

Ag. CHIEF EXECUTIVE OFFICER



Annex 5: Attendance sheet

DongoKundu (Mbuta Location)



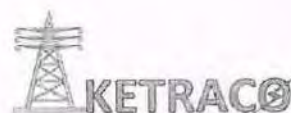
ATTENDANCE SHEET

Project: 220kV Dongo Kundu Substation ESIA Venue: Dongo Kundu SS ESIA Date: 28/07/2021

No.	Name	Designation	Telephone	Signature
1.	FATUMA J. KHANNA	SNR. CHIEF	0721646279	
2.	RASHID AZOALLA	ALUMINUM	0924664023	
3.	CLYFORD OICHO	Environment - Ketraco	0718967844	
4.	UMMAYYAH BASHIR LUGARD	Resident	0708183164	
5.	HAMAD JUMA	VICER	0718559188	
6.	SAD BIDU	SEZ Com	0700892100	
7.	KHAMUS SATH KHAMIS	SEZ Com.	0722825534	
8.	BINTALI SURRA ABDALLA	SEZ Com	0790141706	
9.	FATUMA SHEE MWAFUD	SEZ COMMITTEE	0724726018	
10.	KHAMISI MWANZENGU	CHAIR SEZ Com.	0734515688	
11.	SHABAN O FUNDIZA	SEZ Com.	0701590513	
12.	MUHAMMAD KUTUBI - Njiru	SEZ Com	0718900192	
13.	MUHAMMAD M. KINYANGA	SEZ COM	0705694923	
14.	HAMISI MUHAMMAD SIHAR	SEZ COM	0701624005	
15.	Abdullah Juma Saq	S.E.Z.	0708680901	
16.	SHABAN SEIF	S.E.Z.	0793599272	
17.	SWALEH ALI	S.E.Z	0745740312	



No.	Name	Designation	Telephone	Signature
18.	AULA TUMA MDAERO	SEZ	0726283023	
19.	SULEMAN SAID	V. AIDER	0705494222	
20.	MUHAMMED ALI MHAZIMA	P.A.P.S	0712263537	
21.	ABDI JONAH KIONGI	P.A.P.S	0112897997	
22.	MASID MUHAMMED MGENYA	P.A.P.S	0720609157	
23.	AWADH OMAR ROMA	P.A.D.S	0727669152	
24.	MWANASHA OMAR GONGO	P.A.D.S	0727669152	
25.	SAMUEL SANGA	SEZ	0722264706	
26.	MURUNGIRI	P.A.P.S	0724070993	
27.	CHRISTINE MATOLE	SEZ	0714533852	
28.	FANZIA NAMULANDA BARASA	ENVIRONMENTALIST - KETRACO	0110110829	
29.	Lamat Godana	Environmentalist	0720537137	
30.	HENRY KAHINDI KITSIO	LIVESTOCK PRODUCTION OFFICER	0712399963	
31.				
32.				
33.				
34.				
35.				
36.				
37.				
38.				



Ngombeni Location
10/03/2021

PUBLIC CONSULTATION & SENSITISATION MEETING FOR MARIKANI-DONGO KUNDU TRANSMISSION LINE.

LIST OF MEMBERS PRESENT (BARAZA).

No.	Name	Occupation	Telephone	ID. No.	Signature
1.	AGNES M. BEJA	Mkulima	0799447353		
2.	BILUMA OMARI NCHIGULU	"	0729043440	2223861	
3.	FATUMA HAMISI MWAKULIMA	"	0713347132	23891212	
4.	BENJAMIN S. MUKAMUKU	Businessman	0716563759	13282133	
5.	IGWEGWE AL. PHEGO	-	-	5418933	Kap
6.	ABDALLA ALI	-	0737394865	6733347	A
7.	MWAMNENI SULEIMAN MUSA	Business	0790741758	30684796	
8.	RASHID MOHAMED GOGA	-	-	2221344	RMG
9.	HASSANI ALI MWAKULIMA	-	0701639608 0723112	9633112	HAM
10.	HAMISI JUMA MWAKULIMA	Businessman	0792029805	26326457	HJ.
11.	MWAMNENI H. BIKAPHU	Mkulima	0726954104	20828887	MW.
12.	AL. JUMA M. MWAMNENI	Mkulima	0733407563	29475016	JM
13.	MWAMNENI M. MWAMNENI	Mkulima	0742820613	26308079	MW
14.	Eustace Njuguna	Health Consultant	0720685772	22537742	
15.	BAKARI S. TUKU	Mkulima	070477785	2205839	BT
16.	HAMISI MWAMNENI, NAGA	CARPENTER	0728054010	21103118	
No.	Name	Occupation	Telephone	ID. No.	Signature

#					
18.	Hamisi Swaleh Mwarahi	NRKUMA	0459042472	20528948	
19.	Kishombi Jeter	V/ADMIN	0723525900	2104732	
20.	Sahama M. Suleiman	ASSIST/CHIEF	0716922182	13417784	
21.	MSTANUS S. NAWUE	BARA/CHIEF	0729882777	13416373	
22.	Chiford Siocha	KETRACO	0710961800	—	
23.	Aghumani Jaji	W/ADMIN	0723029497	—	
24.	Ramab Godano	KETRACO	0720537131	Kete 00010	
25.	Michael Otiemo	KETRACO	0712980296	michael@ketraco.co.ke	
26.	Charles Kamwer	KETRACO	0719018121	ckamwer@ketraco.co.ke	
27.	Ahmed Sheikh	1/KETRACO	0723807955	asheikh@ketraco.co.ke	
28.	Naomi Rotich	Ketraco	0725932008	naomi@ketraco.co.ke	
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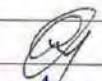

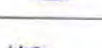

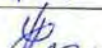





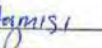


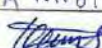


Ngombeni Location
Kitege sub location

PUBLIC CONSULTATION & SENSITISATION MEETING FOR MARIKANI-DONGO KUNDU TRANSMISSION LINE.

LIST OF MEMBERS PRESENT (BARAZA).

No.	Name	Occupation	Telephone	ID. No.	Signature
1.	HALIFANI RAMA	V/ELDER	0768888728	35121226	
2.	SALIM ALI MWAPAKA	"	0725067118	8413091	
3.	ABDALLAH ABDALLAH	"	0715501457	2196966	
4.	ALI HAMISI MWAIBU	MKULIMA	0726131725	3961301	
5.	JIFI ABDALLA YESI	"	0705645466		
6.	JUMA ALI MWAHUTUNZA	"	07	2222311	
7.	JUMA AMANI	BIASHARA	0723233637		
8.	ASDI ALI MWAMKANI	MKULIMA	07	2137707	
9.	SWALEHE HASSANO MWATSIMU	"	07	2204222	
10.	SALIM SAID JARDI	"	0740387938	1015501	
11.	ABDALLA SWALEHE	MKULIMA	0727155069	6732602	
12.	JUMA MWINYITHAJI	"	07	4614255	
13.	SUMUNI JUMA MWAMBAGO	"	07	5521298	
14.	HAMISI -A. MWAMBEGA	"	0700499844	2204864	
15.	SAID H. MAKOROMA	V/ELDER	0799576332	5466089	
16.	ABDALLAH R. RANDANI	"	0713516747	3166775	
No.	Name	Occupation	Telephone	ID. No.	Signature

18.	SAID ABDUL MOPHO	Mkulima	0722435055	2205125	
19.	MWINYIKOMBO, M. DENDE	"	07	4614911	
20.	SWALEHI ABDALLAH SAA	"	0723643953	8409794	
21.	MOHAMED, M. NYOKA	"	07 010275987	2215405	
22.	SULEIMANI A. MWAKACHE	"	0718100303	3090532	
23.	OMARI .S. MWATARU	"	0793008349	2204381	D.S.M.
24.	ABDALLAH, J. NGOTO	"	0718856293	3167143	
25.	JUMA, M. CHINYANG'A	"	0743970130	21572814	
26.	HALFANI ALI	"	07411858114	4635910	
27.	HAMISI HASSANI MWAHIDI	"	07111050111	4635910	H. HASSANI
28.	ALI BAKARI MWAKUSEYA	"	0745761313	26321131	
29.	MATIANO BAKARI	"	0742605222		
30.	MWINYIKAI, H. PELEWA	V/ELDER	0723262980	3167308	
31.	HAMISI H MWAHIDI MOPHO	Mkulima	0701346634	2223811	Hamisi
32.	RAMADHAN MUSAZIM	"	0701552845	2223226	
33.	HAMISI - PUNDA	"	0723351714	550262	
34.	SHEE JUMA MWAMBARO	V/ELDER	0703343805	0501921	
35.	MOHAMED SAID	Mkulima	0700771212	4593245	Mohamed
36.	SULEIMAN DORI	"		1013944	H.A. MRSI
37.	HAMISI MOHAMED	"	0720621682	27329319	
38.	MOHAMED SULEIMAN	"	0719507292	4596458	
39.	MOHAMED SHERIA	V/ELDER	0724691885	8167798	
40.	EGA MANGALE BAMBARA	Mkulima	0716379152	27267361	

Kasemeni Location (Mnyenzi)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	Mbingu Ndegwa Chikozu			2215978	
16.	Nyamvula Mangale Nyaku			2187399	
17.	Mangale Chimera		0711278461	2187133	
18.	Joseph Shumba		0714924931	11496599	
19.	Madeni Njeka Nyuni			2200915	
20.	Madeni mangale		0768027670	2201705	
21.	Mose Mwiro		0740803936	2211431	
22.	Mosika Nyarusi				
23.	Chinyavu Ngao		0710310678	24114260	
24.	Migana Nyande		0712671258	2186160	
25.	Gunda Besida		0701669505	33284088	
26.	Chizi Ngendi Ngala			34820084	
27.	Mgandi Mibavu		0797802124	11244128	
28.	Mido Ngobo			33318149	
29.	Mwini Maku		0701629855	27779175	
30.	Chinyavu Mingo		070587362		
31.	Hama Katana Kazi			21439320	
32.	Chizi Ndegwa			32980582	
33.	Said Rai Nyando		0769913742	28812288	
34.	Ndzua Usato		0790908180	28664084	
35.	Maria Wakis Mlewa		0703276422	13268927	
36.	Mwini Jembe		0798345338	27807673	
37.	Betty Dzame patrick			37371035	
38	Jato Chembu		0718774937	28722663	



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

 LOCATION: Kasimeni (Mwinyenzi) DATE: 08/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	KOMBO NYANJE DAMAU		0720735188	2210892	
2.	CWEDE KINYA GWA		072449097	2211465	
3.	MWANAHIDI. N. JUMAX		075836474	20854065	
4.	KATA MONGO		070562134	6233332	
5.	KWEIWE DZOMBO		—	22526121	
6.	MKAMBE NBOZO		—	5424021	
7.	MATARI NYAE		0722561335	11601506	
8.	NBZO SIMBA		0794291313	25476353	
9.	CWEDE MANGALE		0295092342	21400762	
10.	JUMWA CHONGO		—	85357222	
11.	MWAKA DUNE		—	2182862	
12.	CHIZI MLENO		0708865869	—	
13.	EMILLY JOTAY		0758553528	223869803	
14.	NDEGWA MUMBA		0765247820	10955702	



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

LOCATION: Kaisomeni (Mnyenzi subloc) DATE: 04/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	Dzame Ngaka Mwachonda		0795602935	9632349	
2.	Chesi Mwachonda		07	07	
3.	Saumu Mado Magera			30677897	
4.	Mjeni Mbadi		0757371581	21813540	
5.	Luvuna Ndegwa Chikwa		0768249077	30516642	
6.	Anzazi Nyundo Chikwa			2211324	
7.	Gwede Hale Bembyu		0714047627	23822616	
8.	Mbadze Mingo Mbilo		0717204890	27720030	
9.	Chirio Ndoro Chaka		0727866453	2772483	
10.	Kaly Ali Chika		0727770768	11188970	
11.	Salima Ndoro Chaka		0701616477	20919418	
12.	Dzame Ndegwa Kazungu		0787973547	33556732	
13.	Dzame Chikwa Nub		0743364642	20963406	
14.	Mjeni Nyondo Ngad			33886011	

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	KOMBO KAI		0720045982	25372471	
16.	MWARUA RUWA		0716989232	14624605	
17.	KALANDI NDOHO		0705523802	32957534	
18.	LUVUKE KOWRO		07011919069	—	
19.	KABZO OTHIMBA		0759241137	33813011	
20.	UMAZI BETA		0700772929	32083047	
21.	MWARA BAWO		0728924434	5428489	
22.	CHANDO MWITO				
23.	NEEMA TUSUF		0754008793	26244460	
24.	FATUMA MUNGA		0704926500	34804037	
25.	AMARI CHIRUNGU DIYO		0702703476	27358265	
26.	MEJAMA SADA KAMWENGA			39466415	
27.	MILONGA CHITUMBA		0798495825		
28.	EMILY MUHAMBI MANGALE			21259895	
29.	NGANGE MBUI		0767901148		
30.	JANE C. JOSUA		012024332	27855922 34329406	
31.	DGANE MWAMBWEYA MWAMBWEYA			34329406	
32.	MWAMAMISI CHIRUNGU		0794319530	33860631	
33.	MUPA NYAWA NZUNI			35395583	
34.	SISI LUGANJE			309094074	
35.	MILONGA JIRO			30909403	
36.	NYANJE ZORAI		0795840014	2211434	
37.	JUMBA RAMADHAN		0767445025	9771750	



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

LOCATION: Kasemeni (Mayenzi) sub DATE: 01/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	Ndzua Ndema				
2.	Mnyazi Kadzamba		079706362	33948737	
3.	Mose Mrabu			9964397	
4.	Dama Kadimbi		0708895490	2210890	
5.	Munga Ndegwa		0714647198	14624698	
6.	Nyamunga Chimanya		0740488922	20859220	
7.	Umazi Mchizi Ngome			21224825	
8.	Mwaka Mtono Kulembwa		07973772845	31278717	
9.	Mwaka Ngome Chikosa			33556791	
10.	Mlongo Mwatauni		0734392967	2201504	
11.	Asuq Ramadhan		0714927043	13851730	
12.	Nyae Nyamawi			30601797	
13.	Joseph Ngaa		0757527599	30510873	
14.	Nyondo Wajamwari		0727391073	21812689	



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

LOCATION: Kase men (Mnyenzi substa) DATE: 09/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	NDORO TSIMBA		0723955929	11139629	
2.	CHARLES N. CHABUR		0745851574	21574857	
3.	NGOME LUBANDA TSOTSO			24820759	
4.	HOLE KOMBO		0725218826	2249023	
5.	MWADUNE MIMBETA			5429362	
6.	MAULID Z. TSUMA		0722576337	21726914	
7.	IDI RIACA KIBUDU MWAKIDUDU		0743958381	33531823	
8.	CHIBZIPHE RIACA CHIBUDU		0748309888	28782270	
9.	ZUMA HAMISI JIRA		0745182921	21799627	
10.	MABOYA MANGALE		0706137727	5429793	
11.	PEYESHE BEZIRO MWAMSAHA		0745583652	10505879	
12.	MIMBETA BEJA MIMBETA		0715144486	9874322	
13.	MABENI NTEKA NYONI		0111682413	2200915	
14.	MWARUWA TABU CHIKOKO		0706452151	4251104	

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	KANGA MUNGA NDEGWA		0114463709	21632726	KJ
16.	WANINI MWAKALAMU BAKALU			2184740	WANINI
17.	LUMIND TAYARI MWAKOGA		0700631046	25275154	Thes
18.	KAZUNGU KUMBO BENDARO		0742886723	30200441	
19.	BESJA KEA		0726086586	5424722	Rue.
20.	RAJAP KAMINGU		0728275318	25713766	Kamini
21.	JESUS C. SIRA		0725469451	10226641	
22.	RAMADHAN GWEDE		0700090347	10226152	Rabat
23.	MALEMBI VUNGA		0708544085	6728229	M.V
24.	ABDULLAH CHITI		0721590692	2217605	
25.	GARI MUTEA		0791662395	0764842	G.M.
26.	MOHAMED MAKANZU		0740813884	2193579	M.A.
27.	MWATSUMA MWANGILO		0701845187	26377965	
28.	ISUMA ZUMA VYANI		-	5425662	-
29.	BANZI MWAMONGO		-	2217243	
30.	TUMWA MWAKOGA		-		
31.	SHEBA MWAKOGA		-		
32.	MRISA NGOMBEKO MRISA		0704274520	21226210	
33.	SIMBA NDORO NYAMAWI		-	3960488	
34.	BETA GUNI BETA		0700309770	11138745	Beta
35.	NDEGWA OMARI SHUMBA		0715775851	26176443	Musa
36.	MWANGILO DUNDO NYANJE		0729936513	28868818	
37.	KASSIM KAJIMBI MWANGOMA		0708805430	33539994	K.K.M.

Gandini Location

ATTENDANCE		Gandini Location 9th-3-2022		
	NAME	CONTACTS	ID. NUMBER	SIGNATURE
1	JUMAPILI	079684585	10504080	
2	NYAMWULA MBERA	-	6738468	
3	ROBATI LUNCANZI	-	-	
4	KUFASA GAPHOLO	074289991	2192428	
5	CHAI LUNCANZI	-	6723328	
6	KUMBA KARIMBO	-	10227938	
7	ATHUMANIMWADIMCO	-	25029329	
8	SUMAA CHIMOYO	-	29055982	
9	CHIMOYO CHIWENE	-	08435672	
10	NGATA CHIMOYO	0726942802	0726942802 32003585	
11	Chiwene Chimo	29065106	075822362	
12	PUFANI CHIMOYO	0742603101	34317740	
13	Mshahame Nguta	0704828032	11600231	
14	Murungu Ndiye	-	4822694	
15	Chidilo Ndiye	-		
16	Menzu Chimera	-	27752650	
17	Chiroli Lewa	-	5428066	
18	Mwaiwa Mavura	-	20487368	
19	Ngavi Chindoro	0759578573		
20	Mwangolo Chideunde			
21	Shumba Chidzayo			
22	Chale Kengo			
23	Chiwaya Jawa	0711733191	10955888	Chiwaya
24	BEAT LEWA	0727308228	23877847	
25	MRUKE SAWA	0721591218	21086042	MRUKE
26	MUSON GUSO	0727541751	27139789	
27	JACKSON LEWA	07234642826	22424181	
28	CHIMOYO - C. CHIMOYO	0720108846	4622717	
29	Juma ALI MKEMBI	0708546236	4594254	
30	Mwangombe Karisa Mera	0701147137	11800165	
31	John Mweru			
32	Anzari Mwandira		82175076	
33	Lujuro Niyamawu		20633440	

Name	Contact	phone No
34 Chimap Kombo	29055988	0798658409
35 Mwatambo Mwanjary	27724460	0769232641
36 Mhilo Mwanjary	28178533	0796645735
37 Mkenya Kombo	29832094	0716115864
38 NDURY MSIT	29055907	0746569526
39 Muchuphi Sawa	1623770	0711539203
40 Daniel Chimoyo	8419776	0701236501
41 Dmazi Chitembi Shokoa	20540529	
42 Musiti Mwachupa	4645482	
43 Kombo Chimoyo	14622719	072983336
44 Kwekwe Jabu		
45 Mwaka Muringa		
46 Mupa Ruwa Bawu		
47 Dmazi Beziro		
48 Kahorzi Konde		
49 Bora Chindor Kulala		
50 Dmazi Chindor Kulala	1248804	0710592889
51 Choga Mwanjary	0725432008	
52 Naomi Cheruto	0710967844	
53 Clifford M. Stocka		



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

LOCATION: Mtaa DATE: 08/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	MWANAMISI MASRIKO		0758616432		
2.	MIRIAM NYAE				
3.	KWEKWE MBOGO		0792955530		
4.	KWAKA TSUMIA				
5.	SWABINA NZINGO		0700230700		
6.	FURAH BEGA				
7.	LIVUNO DZETA				
8.	MBEYU NZAO				
9.	EGA NYEVU				
10.	KATANA MUARANDU				
11.	SALIMA KAMENGA				
12.	MWANGA SALIM				
13.	KWEKWE CHIRIGWA				
14.	NYAMVULA CHIRIGWA				



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIAKANI TRANSMISSION LINE

LOCATION: Ntaa DATE: 08/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	MUSEWA B. NGDA		0716434167		
2.	JOSEPH D. NYAE		0728345415		
3.	MORRIS N. TSUMA		0729032349		
4.	JOHNSON E. CHIRSHI		0725062467		
5.	MWAMBETU D. ZANUO		0727044492		
6.	NYAMAU NYAE		0799189397		
7.	DARIUS KINAGO		07 - -		
8.	FRANCIS MWAPHULA		07120258801		
9.	MJENI JAWA		0700246104		
10.	LIMAZI CHIDANGU				
11.	MLONGO RUMBA		0710850013		
12.	MTENI MWAKOGA				
13.	MASIKA MWANBORO				
14.	MBEYU MATSUNGU		0715128073		

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	KOMBO MSHENGA		0722264387		
16.	DZENA MWARUA		0791041997		
17.	CHARI BEZIRO				
18.	KINDU NGOWA		0713454489		
19.	CHAKA LELI				
20.	KAKU SHEHI		0743364925		
21.	CHIBOKO NGANDU		0703873627		
22.	RAMADHANI MRINZI		0111276830		
23.	MDUNE RAI		0716463011		
24.	MGANDI CHIBOKO		0721404904		
25.	NTIRA MWAMBOZOMBA		0717214059		
26.	EGA NDEGWA		0111725542		
27.	CHIMERA CHIMOYO		0728738366		
28.	SHEHI ISMAEL		0790017128		
29.	JUMA MWAMBOZOMBA		0731420676		
30.	JOJO NDEGWA		0724060544		
31.	PURITY LUVUNO		0112704264		
32.	CHIZIGWA MUNDU		0794480277		
33.	HARAKA MAGOMBO		0742373119		
34.	OMARI BEJA		0112705208		
35.	SALIM MNYAKA		0706897727		
36.					
37.					







PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

LOCATION: Mtaa DATE: 08/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	LUVUNO KAMANZA				
2.	UMARI MAZERA				
3.	CHINYAVU JUMAA				
4.	UMAZI NGAO				
5.	UCHI RUA				
6.	NYAMVULA NYONDO				
7.	SADA MUMBO				
8.	LUVUNO MWACHILUNGO				
9.	MBEYU LELI				
10.	UMAZI MKURUTO				
11.	TSUMA NGOWA				
12.	MWANGOLO DEHA				
13.	SAMUEL NGAO		0703859681		<i>[Signature]</i>
14.	JAMES BORA NYANJE		0718681834		<i>[Signature]</i>

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	elipford Siacha	KETRACO	0710967841	esiocha@ketra.co.ke	
16.	Otieno Michael	KETRACO	0712980276	moluoch@ketra.co.ke	
17.	Jared Chigamba	Ketraco	07262910749	jchigamba@ketra.co.ke	
18.	Charles Kanuwa	Ketraco	0726587049	ckanuwa@ketra.co.ke	
19.					
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Mbuguni Location


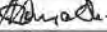

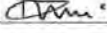

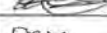
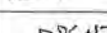
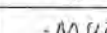
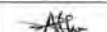
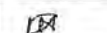

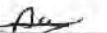

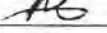










Mbuguni location
10/03/2022

PUBLIC CONSULTATION & SENSITISATION MEETING FOR MARIAKANI-DONGO KUNDU TRANSMISSION LINE.

LIST OF MEMBERS PRESENT (BARAZA).

No.	Name	Occupation	Telephone	ID. No.	Signature
1.	MWANASISI S. TAMBIKA	FARMER	070326327	20542017	MSJ
2.	MEJUMAA MBITI	FARMER	075736514	12490860	MJO
3.	MIBEYU NZIGEMASHOJI	FARMER	0798439584	3167164	MC
4.	UMAZI BADOWE CHOGA	FARMER	0720971165	2197919	Umasi
5.	MASIKA GANADRA MKIADNO	FARMER		9874299	ME
6.	MEALI A. MWAMKANYI	FARMER	0716284240	21850234	MA.
7.	MWANASHA S. MWAMAREMBO	FARMER		29950403	MR.
8.	NJIDA BUNGUJI NDARO	FARMER	074657556	6779275	N.B.
9.	MWAKHAMUJI MKALA	FARMER	0723998210	23852275	MG.
10.	UMAZI J. BEJA	FARMER	0759375930	21545281	CL.B.
11.	MIBEYU BAKARI	FARMER		2960649	M.M.
12.	UPCHI DAN MUKEMBE	FARMER		2227731	the
13.	MZAKAMBI KONGOT	"	0777574590	9881551	MSJ
14.	FATUMA B. NZIGI	"	0742855887	27869979	MSJ
15.	CHIZI M. MBEZI	"		31186827	Chizi
16.	JOSPHAT MASHALWA KURISA	"	0722935366	8427437	MSJ
No.	Name	Occupation	Telephone	ID. No.	Signature

	NAME		TELEPHONE	ID NO	SIGN
18.					
19.	TWENDE NGOME KUNTEJA	FARMER	0726998797	4625390	
20.	MWASHANCA HASSAN	FARMER	0704679312	13282846	
21.	JUMA DOLLA MBINDO	FARMER	0707707434	20981913	
22.	MASUBI DXUNGU MANGALE	FARMER	0745099247	26225821	
23.	NDEGUSA CHIMERA MZUNGU	FARMER	0725730753	26042401	
24.	CHIMERA MANGALE	FARMER	0798437928	27188390	
25.	NGETZE RAMADHANI KADZINGO	"	0792530672	27400752	
26.	NGATA MGALLA MWANDIA	"		11601376	
27.	MWAHANJE B. MASUBI	"	0719454833	11771657	
28.	ATHUMANI KOMBO	"	0791942764	20871640	
29.	PAPA NDEME MNEARD	"	0798504313	9394075	
30.	KOMBO MANGALE BEGA		0725037840	14437271	
31.	ALI RAKARI MIXIALIPHUNGA	FARMER	0727657089	27180514	
32.	ALI MWARABILI OMARI	FARMER		37577642	
33.	MWAHANJE ISANSARI	"	0713260654	10524219	
34.	OMARI MWANGODA	"	0729948054	20797873	
35.	RASHID MGALA MWAN	"	0112047135	20797950	
36.	JUMA MWIROCHACHIGODI	"	0723827312	23386991	
37.	CHEALO Dromo	"	0700874699	27150173	
38.	MWERO CHINDOTO	"	0729203289	10768039	
39.	Horanzo Mwanu	"	0706433805	2217661	
40.	MWADIGA MANGALE MASHAHILI	"		3960536	



Mbunguni Location

10/03/2022

PUBLIC CONSULTATION & SENSITISATION MEETING FOR MARIAKANI-DONGO KUNDU TRANSMISSION LINE.

LIST OF MEMBERS PRESENT (BARAZA).

No.	Name	Occupation	Telephone	ID. No.	Signature
1.	SHABANI A. KUFASA	FARMER	0718326772	8409068	
2.	MWANDORO ALI. MWANDORO	"	0742174428	6728523	
3.	ALI GWENZELE RAMADHANI	"	0726717858	1169239	
4.	NGALA BARAZA BENWAKA	FARMER	0797574914	35349492	
5.	SHABANI JUMA SUGAR	FARMER	0700694298	2221064	
6.	SAIDI MWANDORO ALI	FARMER	0717818775	33234725	
7.	MANGALE YAWA	"	0711526454	27186628	
8.	ALI NZIGE MASUZI	"	0723763139	9874843	
9.	JUMA RAMWENGA	"	0727578611	10505582	
10.	ALI SALIM JAMBIA	"	0726564588	8409524	
11.	SALIM SAID MWANDORO	"	0705118201	21679463	
12.	SAID BAKARI ALI	"	0115692259	30349265	
13.	SHOKOA NZUZU NGAZA	"	0795773480	12894989	
14.	KALIMBO MWERO BEJID	"	0719603519	2200309	
15.	OMARI BAMBANYA	"	0114853140	6732673	
16.	SAIDI RAMADHANI KABZINGO	"	0112113911	26949069	
No.	Name	Occupation	Telephone	ID. No.	Signature

	Name	Occupation	Telephone	ID NO	Signature
18.	JOSEPH CHARD MSINDA	FARMER			
19.	HAMISI MOHAMED DOLA	FARMER	0726138573	26184775	
20.	NASSIRO ALI JULLA	FARMER	072211800	13838482	NA
21.	HAMIS R. MWAZU	FARMER	0715551037	21850323	
22.	ABDALLA SAID VIRO	FARMER		26886021	
23.	SULEIMAN BAKARI MWANDEGA	FARMER		29791376	
24.	NGAZAA CHUPHE	FARMER		0468511	
25.	OMAR MWANDEGWA	FARMER		20872054	
26.	HAMISI J. MWACHIA	FARMER	0725280357	8409268	
27.	DAMA S. MWANDEGA	FARMER	0704748085	11771643	
28.	MBEYU MWANALIA MUTI	"		20867168	
29.	BETE MUSADEGWA MWAZUMBALI	"		4574839	
30.	KOMBO ABDALLA	FARMER	0228142407	3960551	
31.	RAMADHANI KABZINGO	FARMER		2223084	
32.	CHARLES KARUCI	KETRACO	071908121	ckaruci@ketaco.co.ke	
33.	Naomi Rotich	KETRACO	0725932008	nkaruci@ketaco.co.ke	
34.	Clifford Siocha	"	0710967844	csiocha@ketaco.co.ke	
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Mwavumbo Location



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIAKANI TRANSMISSION LINE

LOCATION: Mwavumbo Location DATE: 07/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	KUPHENYA DALU		0715346633		
2.	ELIAS N.M. MWADORI		0757572002	9771257	
3.	HAMISI NYAMAWI		0708396167	31262729	
4.	NGOME MBEZA		0757.708090	8434851	
5.	Wilson Mangale		0768414071	2177806	
6.	MWAZIMBA NYASI		0710841071	5337707	
7.	NZEMBE CHIGAMBA		0769657590	4575126	
8.	Omar Mgunya		0708512585	24474003	
9.	MUTHOKA MBINDO		0706842361	32302321	
10.	MGANDI MBAO		0720410340	22603334	
11.	CHIBERTA KADZINGO		0717156018	28310597	
12.	DALU CHIGAMBA		0740480676	2212396	
13.	HABAD TOGINDI		0797296114	33132520	
14.	AMOS M. KASEMBE		0715632861	8395529	

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	DALU MWATSAHU		0716563287	29676366	
16.	OMAR ZUMA		0796779764	34963406	
17.	MNYIKA Ndalo		0705586183	21684621	
18.	KADENGE KUPHONYA		0798187367	138532225	
19.	PREBEMWAKAYI CHALO		0707948998	13455513	
20.	WANINI DALU		0729387898	26949433	
21.	RAJAB KADUNGU		0745442737	26949049	
22.	ELIAS NDONGU		0792713794	31799808	
23.	VICTOR YAMBA		0711268360	13628521	
24.	GILBERT ALEX		0707007901	33843751	
25.	FRANCIS K. MWANDORO		0791557526	225546	
26.	ALFRED BAYA		0757402535	38724401	
27.	ANDERSON JIRA		0110888037	9394354	
28.	PATRICK MUNYA		—	1168838	
29.	JEFA CHITI KALU		0729569515	9771309	
30.	MUNGA MWATSAHU		0716490836	34296739	
31.	HAMISI MUTOKA		0706842361	32302331	
32.	MUTOKA Mbindyo		0727619267	3886955	
33.	ZUMA KAMBU		074234634	2065017	
34.	MNYIKA DALU		072669001	10768168	
35.	HAMISI MWATSAHU		075606189	22458221	
36.	RAMA KADENGE		0717156018	RamoshyLove@gmail	
37.	MUGUNDI CHENGERONGWE		0706866606	28800740	



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

LOCATION: Kalalai (Mwenumbi) DATE: 7/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	JOHN KATEMBE		0725-223527	003337188	<i>[Signature]</i>
2.	JASSIE KATAMP ALYS		0729492823	25513080	<i>[Signature]</i>
3.	COFMRAS NYANJE		0712570271	24697730	<i>[Signature]</i>
4.	MGANA MINAZUMA		0706859782	4621616	<i>[Signature]</i>
5.	CHIMAIRA KALIMBO		0794690355	21231272	<i>[Signature]</i>
6.	SUAJE M. VUTO		078999743	5424093	
7.	CHIZI NYIRO MWAFUMA		0742472829	4621601	
8.	NYAZE KATANA ZIRO		0791095095	31710165	<i>[Signature]</i>
9.	MBAO MGANDI		0712647855	21791632	<i>[Signature]</i>
10.	BAYA MWADORI		0720519126	14971772	<i>[Signature]</i>
11.	ANANIAS KENGA. M.		0759175541	32265741	<i>[Signature]</i>
12.	CHAGURA NYIRO		0716376508	8417348	<i>[Signature]</i>
13.	ZUMA NYIRO		0790432264	0661828	<i>[Signature]</i>
14.	CHIMAMBE MINGA		071659838	20897067	<i>[Signature]</i>

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	RASHID MZURU G.		0722430679	8411634	
16.	NAFIALI MALEMBI KATEMBE		0723090738	32191246	
17.	RAMS KARAMI MBO CHITOJA		0731949733	8397195	
18.	ZIRO KATANA ZIRO		0742901731	12489046	
19.	JAMES NGARA		070740401	14436324	
20.	MWAMBAYU NCOME		0721140127	1095512	
21.	Rams Karami		0715031403	20847013	
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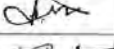
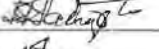


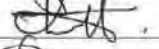

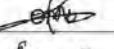


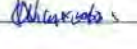


PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIAKANI TRANSMISSION LINE

LOCATION: Mwawumbo DATE: 07/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	MBALAZI GONDO				
2.	MBALAZI GONDO				
3.	UMAZI SAINI		075 9181674		
4.	NZABE YAMA		0101359947		
5.	SAUM MURUKWA		0710466905		
6.	KADII MWALEWA		074619679		
7.	MARGRET MAGANGA		0715088114		
8.	MUNGO CHIKILOLO		—		
9.	IZAME MRABU MANGAL		0711936127		
10.	SAUM NIZOME		0729425930		
11.	MWANAHAMISI RASHID		0724139468		
12.	SABA KAZUNGU SIMBALA		0729162002		
13.	CHITSAKA FUNDI		—		
14.	LUVUHO MWAMWERO		0723426701		
15.	IZAME MENZO		0713090752		

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	KUPHA MGUNYA		0720987540		
16.	NZINGO MBAD		0720482999		
17.	MALONGO ^{KAPANA} NGALAA		0185060514		
18.	MUPA NIZEMBE		0724469208		
19.	UMAZI GUNDA				
20.	RAMADHAN BAKUWISANDI		0724076084	9881976	
21.	JACKSON MAMBO MWACHIKOLE		0725128269	21620751	
22.	MUHAMMAD MBAD MGAO		0707685400	27326922	
23.	MGAO Chirei KALUMBE		0708894527 24486005	24486005	
24.	WELSON MUYOT		0715057042	3236428	
25.	MGAO KABUNGO YAMA		0727123352	8612647	
26.	Nicholas Jira Mwataku		074587641	39226386	
27.	CHIBERKA CHIRAPHO		0723734355	24008772	
28.	MUNGA MGAO MALEMBI		0725733633	5037018	Munga
29.	CHAI AUCH CHAI		0700741662	2200048	Chai
30.	Mwam Mungika Laly		0712131848	8397572	William
31.	MGAO MBAD MAMASIS		0705671032	12628515	Mgaodi
32.	Clifford Siche	KETRACO	0710967844	20194986	
33.	Charles Kaniwa	KETRACO	0726587049	ckaniwa@ketrao.co.ke	
34.	Olivero Michal	KETRACO	0712980296	michal@ketrao.co.ke	
35.	Ahmed Sheikh	KETRACO	0723609955	ashaike@ketrao.co.ke	
36.	Ramot Godano	"	0720537137	rgodano@ketrao.co.ke	
37.	Naomi Rotim	Ketraco	0725932008	naomiro@ketrao.co.ke	




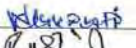
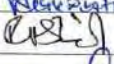
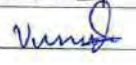
PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

LOCATION: Katani Mwavumbo DATE: 07/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	SOLOMON K. DALLU	2006039552	0715230300	11224813 Solomon.dallu@yahoo.com	
2.	SWALEH LELLUNZOMO		0718570348	2206051	
3.	MBORO RAM		0710635349		
4.	CHIGUBA MUYAMBAZI		0733926788		
5.	MASHA KATANA				
6.	HAMISI MBAO		0713122347		
7.	CHIRAPHO YAMA		0711898658		
8.	STEPHEN BURY TENGEI		0729102002		
9.	MILIEY KILEROZO		0780710908		
10.	BUDU YAMA		0712457987		
11.	YAMA MBAO		0780080563		
12.	Mgandi Kusuwa		0795058146		
13.	Kusuwa Mgandi		07		
14.	MARIA ROCH		0717322293	2022016	

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	BAHATI MIRAMBO	0725434786	0708434786	27325658	BAHATI
16.	KHADJA KADZO GWAMA	0708311631	0708311631	12489140	HAD
17.	LUVUNO MURANYAWA	0741205847	0741205847	35701908	LUVUNO
18.	HALIMA LUVUNO CHIMUNDA	0721719677	0721719677	35701908	HALIMA
19.	ANNA NDUKU MUTINDA			32453007	ANNA
20.	KALUMIE MWIROGO	0723357705	0723357705	9970926	KALUMIE
21.	MBEYU RWA	8	8	8400947	MBEYU
22.	REHEMA SAMMY	0769128780	0769128780	28114265	REHEMA
23.	RUTH MUDALA	072830783	072830783	10754015	RUTH
24.	MWAKA CHUNGU	0796339012	0796339012	075691955	MWAKA
25.	NADHWA JUMAA KAZUNGU	071562408	071562408	20859887	NADHWA
26.	MUGENI MUNALO MRAWA	0702014070	0702014070	5016452	MUGENI
27.	FATUMA BAGALA	0721828066	0721828066	32196425	FATUMA
28.	STEPHEN DALU	0723448191	0723448191	682495	STEPHEN
29.	BAGALA DALU	0729646233	0729646233	393770	BAGALA
30.	DANIEL DALU	0720480828	0720480828	213893	DANIEL
31.	MICHAEL CHONGONGWE	0706566606	0706566606	28800746	MICHAEL
32.	HASSAN KATIEMBE	0721460404	0721460404	5411506	HASSAN
33.	KATIEMBE NZEMBE	0758265394	0758265394	13280431	KATIEMBE
34.	EVANS MUKACHOLE KAPITIKI	0704660157	0704660157	13628528	EVANS
35.	CHUMBA BARI	0788396998	0788396998	6739810	CHUMBA
36.	MALISA MUVU			8426321	MALISA
37.	JIRA KUPENTA	0711951929	0711951929	30887619	JIRA

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	Ahmed Sheikh		0723809553	ashaike@ketraco.co.ke	
16.	Clifford M. Siacha	Ketraco	0710961844	csiacha@ketraco.co.ke	
17.	Naomi Rotich	Ketraco	0725932008	ncheruto@ketraco.co.ke	
18.	Rashid M. Hamisi		0717082255	2201442	
19.	DICKSON N. VYANI		0706412547	2216143	
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Mwatate Location



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIAKANI TRANSMISSION LINE

LOCATION: Mwatate DATE: 06/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	Raphael Bombo Ndema		0722466645	5332557	
2.	STEPHEN MBAE NDEME		0725717086	5429166	
3.	CHRISTOPHER DAU		0701363749	6733715	
4.	Daniel Mwachiro Dyo		0700439268	11138736	
5.	Ramadhan Ngoka Mawunghu		0710498036	23965124	
6.	MWATSAKA NYAMAI		0717186607	10504436	
7.	BONIFACE MAZERA		0706497860	8400551	
8.	ALISTAIR N. NDORO		0710727765	4591752	
9.	DICKSON M. KAMUNDA		0705574355	1168090	
10.	NGULA MWABENA MWAMUMBE			5429633	
11.	FATUMA LUYANA MUDDE		0743516945		
12.	MIBETHI MWA GAGO CHINDO			21164842	
13.	UCHI NZETA MWABUWA			5428829	
14.	KWEKWE NYAMAI KIZIMBU			31800678	

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	MNyambu Chengo		0711302841	10226889	
16.	NDEGA + MORTO MATEU				
17.	MWANAJUMA NIRO NASSI		0713640935	30935051	
18.	UMAZI MATSITSA		0728557137	21184668	
19.	MLONGO KARIMBO MWERO				
20.	FACUMA ZIRU NBOBO				
21.	UMAZI NDEME PHANJOKA			2217633	
22.	HALIMA NDEME MATSITSA		0795663830	33282943	
23.	SIDI KOMBO MWAMUMBI			8424785	
24.	NADOMI MWAVITA MWARUMBA				
25.	GHIZI MUMBA MWAGANDI				
26.	AMINA BAKARI MUSA		0795682633		
27.	RIZIKI SATARI MWASORI		0795094481	31021169	
28.	KWEKWE KILUBU NYAE			27368378	
29.	NYAMVULA CHANGORA NDEME		0723651928	21840972	
30.	MWAWATAMISI KUPHA MWANJIGE		0740602680	27772666	
31.	CHIZI KYENTWA NDEME		07		
32.	RAPHACK MWAMWERO MAWORI		0772642626	6733845	
33.	MAKASZA MBEKA NYONSO		0719742868	11161702	
34.	OTIHO MICHAEL	KETRACO	0712980296	otmduoch@ketra.co.ke	
35.	Chifwa Swacha	"	0710967844	csiocha@ketra.co.ke	
36.	Charles Kaniui	KETRACO	0726587049	ckaniui@ketra.co.ke	
37.	Ramot Godawa	KETRACO	07208737	rgodawa@ketra.co.ke	
38.	Ahmed Sheikh	KETRACO	0723809955	ashiekh@ketra.co.ke	

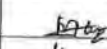
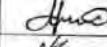
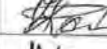
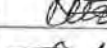


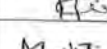


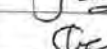

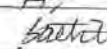
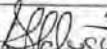



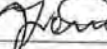




PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIKANI TRANSMISSION LINE

LOCATION: Mwatate DATE: 08/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	SHANGA PALA		0742915235	12489080	
2.	DUNCAN NAGESWA MRAHU		0740171117	9771285	
3.	RACHEAL MBEIU MWERO		0708476138	28139043	
4.	MAZERA NGUTA KAMANZA		0701625207	31420457	
5.	RAMLA CHAKA		0725673654	27512207	
6.	NDEGWA MWANYOMA		0712519746	28755344	
7.	MLYAWI MBOU		0726040038	13417194	
8.	CHITWEKE NZOLE				
9.	Chimera Ndegwa		0792484302	27501448	
10.	Zuma Chong'ora			2143886	
11.	Fadhili Mwachupa		0720424596		
12.	Ngana Mwanyoma		0719736694		
13.	MISIMBA CHIPHYORA		0157494651	37798685	
14.	MWERO DENA		0790527795	37861205	

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	Juma Chango		0715691460	9771444	
16.	Mreje Nyanje		0795505424	13418467	
17.	Mekanga Nyoo		0700638353	5425650	
18.	Kaema Jawa		0727384294	12771236	
19.	Mwagaga Mwamwero			8372495	
20.	Suleman Ndoro		0713534417	28017096	
21.	NYONDE CHAKA		0700637097	23601819	
22.	MAZERA SAMUEL BADA		0711387576	24861146	
23.	NDOME MCXNDI NDOME			23958500	
24.	Mazera Chinago		0748356374	31394243	
25.	Hamisi Mwamwero mrabv		0718512463	31206532	
26.	Tinga Mrema		0728275336	21735397	
27.	Athuman ngala Kombo		0748696622	40324419	
28.	Juma Chole		0719859317	28508262	
29.	EMMANUEL CHAKA	-	0727717524	21774021	
30.	MWAEGA JAY	-	0725748538	10504252	
31.	SAID CHIBIGA TINGA	-	0114654394	28525477	
32.	DUNCAN N CHIKOZA	-	0745703175	12489132	
33.	MATAZA CHIKO	-	0702080600	21773498	
34.	NZARA NYAWA	-	0713387160	27369367	
35.	CHITUMBONDEME	-	0728938782	28570413	
36.	NYONDO KIBALO	-	0722937173	9395799	
37.	NDORO CHAKA	-	0707903811	23919454	
38.	Naomi Rotich	-	0725932006	25140043	

Mariakani Location



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIAKANI TRANSMISSION LINE

LOCATION: Mariakani DATE: 07/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	HARISON KATANA KONDE		0704836341	9113726	
2.	NELSON KENYA KALUME		0726292699	23298447	
3.	KADZO MWINZALA			5005898	
4.	TAMES NGONDI EDWARD		0707736601	9771738	
5.	KANGANGI MOCHI		0717484579	506849	
6.	THOMAS MGANGA		0758537226	21840541	
7.	Mbalo Mgandi		0711263698	11376912	
8.	SHADRAEK KNYAMIA		0723976391	8526136	
9.	SWADIG MUCHI		0716331016	28026219	
10.	NAURYA SALU		0746908123	37676221	
11.	Abdallah Safari		0708258158	10429699	
12.	MENZA DUNDA		0725338741	11086551	
13.	Gladys Karisa		0711862770	23377422	
14.	Safari Jeywa		0728152064	2179812	

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
15.	REHEMA ^{MARIKANI} MUNDA		011778078	322678628	
16.	KHAMIS BULU		0710864319	21450089	
17.	WILLIAM KINTAMIA		0723215259	11376844	
18.	KENNGUY CHIMBUN		0720880020	26494039	
19.	HAMISI NDEGIWA		0712060969	27332350	
20.	KITULU MKALU		0727800280	11764084	
21.	SAMMY MWANYOLE		0714877966	9113747	
22.	AUBERT MBOGA		0724049795	2101188	
23.	SHADRACH MBOGA CHEN		0720230587	23211421	
24.	KAHINDI KATANA		0229904889	29703910	
25.	DANIEL YAR CHENGO		0722279745	8526087	
26.	DOLU KINTAMIA		0746283491	23858406	
27.	KADZO CHENGO		0727467647	23282671	
28.	TORRENCE MUKARAI		0715702112	12956855	
29.	WACHE MUGANDI				
30.	YUSUFU KAUONDO BADI		0722707523	30570237	
31.	HZARO MOKUGOS				
32.	CHIZI MWANGUO MAKALAI		0746086569	32506147	
33.	MWIKALI MUTHIYA				
34.	JUMWA KARISA CHARO				
35.	KWEKWE MAKANGA				
36.	RENDERA KIRAO				
37.	PETER KIRIGITHA		0795760871	9775973	



PUBLIC CONSULTATION & SENSITISATION MEETING FOR DONGO KUNDU - MARIAKANI TRANSMISSION LINE

LOCATION: MARIATILAPI DATE: 07/03/2022

LIST OF MEMBERS PRESENT (BARAZA)

No.	Name	Parcel Number	Telephone	ID. No. / Email Address	Signature
1.	SAM KEMBE BASI		0795916631	10423059	
* 2.	MYAWA KAZU		0723022470	2176071	
3.	Clifford Gocha	KETRACO	0710961804	26594786	
4.	Charles Kariuki	KETRACO	0719 018121	26594786	
5.	Ahmed Sheikh	KETRACO	0723809455	asheikh@ketrao.co.ke	
6.	DIENO MICHAEL	KETRACO	072980296	dmimom36@gmail.com	
7.	Ramuel Godano	KETRACO	072057137	rgodano@ketrao.co.ke	
8.	Naemi Rotich	KETRACO	0725932008	ncheruto@ketrao.co.ke	
9.					
10.					
11.					
12.					
13.					
14.					

**MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING
FOR RAP/ESIA UPDATE FOR MARIAKANI- DONGO KUDU
TRANSMISSION LINE HELD ON THE 10TH MARCH 2022 AT NG'OMBENI
LOCATION.**

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize the Ngombeni community members of the proposed variation for Mariakani Dongo Kundu Transmission Line.
- To notify the community of variation of proposed variation for the line.
- To notify the community on the essence of undertaking ESIA and RAP update
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Agenda

1. Opening remarks
2. Introduction and KETRACO mandate
3. ESIA/RAP update justification
4. Matters arising from the meeting (question and answer)
5. Adjournment

Min 001: OPENING REMARKS

The meeting started at 3:00pm with a word of prayer from one of the community members.

The area chief welcomed the community members and thanked them for turning up. He also extended his gratitude to KETRACO for calling for the meeting.

MIN 002: INTRODUCTION

The purpose of holding the sensitization meeting was to achieve the following:

- To inform the community about the upcoming proposed transmission line project
- To sensitize them on how they are likely to be affected by the project and to also inform them that there has been changes/variations that have occurred on the proposed transmission line since the last sensitization meeting
- Mention how valuation is going to be carried out on the affected property for compensation

- i. Due to the change in site for the proposed substation, the line route was varied to a new orientation into the new the proposed substation site in Mbuta Location.
- ii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation affecting a stretch of approximately 5km within Mariakani and Kalalalni Location in Kilifi and Kwale Counties respectively
- iii. Line route variation within Mwatate, Bofu, Myenyenzi, Kasemeni and Gandini Locations to give room for the implementation of the proposed Mwache Dam. Whereby approximately 15km of the route have been varied.
- iv. A slight route variation at Kaya Gandini to reduce impact of the line on the Kaya.
- v. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project with the original route and a cumulative impact to the Mteza community.

The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have been a significant impact to the community.

Therefore, to remedy this KETRACO technical team moved the route southward off the parent route by 1 to 2km. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce to its footprint to the minimum

In light with the above changes in the route, the team indicated that to ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the ESIA and RAP for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation. The discussion also entailed: The compensation procedures and processes

- To seek permission to collect data during the exercise
- To request support from the community to enable the KETRACO team undertake a successful survey
- To elaborate on the configuration of the transmission line corridor

KETRACO's mandate

KETRACO's Team Leader informed the community of the company's mandate. KETRACO is a government agency incorporated and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. He highlighted that KETRACO is 100% Government owned and being a state corporation, it is regulated under the State Corporations Act, Cap 446. The Company was established to develop new high voltage electricity transmission infrastructure that will form the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines includes 132kV, 220kV, 400kV and 500kV (HVDC). KETRACO's mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission grid and regional power interconnectors that will form the backbone of the National Transmission Grid.

Min 003: ESIA/RAP update justification

The Team also indicated the essence of the project. They informed the community that Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 51km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 28 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km

The community was informed of the following changes in the route:

- Sensitization on vandalism
- The team also informed the community about the planned socioeconomic census for all project affected persons.
- The members were also sensitized on the need for safety measures when construction of the line will be done. And keep from climbing the pylons when they will be done

Project impacts

The team gave a brief on the potential positive and negative impacts from the project with their potential enhancement and mitigation measures respectively.

Min 004: Matters arising from the meeting (question and answer) Issues Raised During Stakeholder Consultation and Response

QUESTION	ANSWERS
(Mr. Hamisi) What is the shift between the old line and the new line?	The shift is one and a half kilometers from the old line.
How is land used for quarry activities compensated?	KETRACO usually avoids quarry areas so as not to disrupt the economic income. If we pass through a quarry we usually require the documents showing the area is for quarry
(Rama Hassan) what is the valuation per acre of the land for the people who will be affected?	<ul style="list-style-type: none"> • Currently valuation for land has not yet been done and KETRACO does not take or buy land but rather we compensate for loss of land use.
(Mohammed Sheria) is the reroute on the whole line, partially or on a small part?	<ul style="list-style-type: none"> • The reroute (variation) does not affect the entire line but a few sections of the line due to a technical reason as explained before.

Min 005: Adjournment

Closing Remarks

1. The area Chief thanked the members present and the KETRACO team
2. He emphasized to the community to offer their support during the process
3. Having answered their burning queries, the meeting ended at 4:20pm with prayers from one of the community members

Minutes prepared by:

Name.....Naomi Auerito.....

Signature.....[Signature].....

Date.....10/03/2022.....

Confirmed by Assistant Chief Ng'ombeni location

[Signature]
P.O. [Signature]

Mariakani Location Minutes

MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING FOR RAP/ESIA UPDATE FOR MARIAKANI –DONGO KONDU TRANSMISSION LINE HELD ON 7TH MARCH 2022 AT MARIAKANI LOCATION AT TIBA(NEAR EMACO HOTEL ALONG THE MOMBASA-NAIROBI HIGHWAY.

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize the Mariakani community members of the proposed variation for the Mariakani Dongo Kundu Transmission Line.
- To notify the community of variation of proposed site for the variation for the Transmission Line
- To notify the community on the essence of undertaking ESIA and RAP
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Agenda

1. Opening remarks
2. Introduction and KETRACO mandate
3. ESIA/RAP Update justification
4. Matters arising from the meeting (question and answer)
5. Adjournment

Min 001: Opening Remarks

The area chief welcomed the community members and KETRACO team for showing up for the meeting. And gave a brief introduction.

Min 002: Introduction and KETRACO mandate

The purpose of holding the sensitization meeting with the project area community members was to achieve the following:

- Inform the community about the upcoming transmission line project
- To sensitize them on how they are likely to be affected by the project and also the changes that have occurred since the last sensitization meeting
- To seek for permission to collect data during the census survey exercise
- Mention how valuation is going to be carried out on the affected property for compensation
- Request support from the community to enable the KETRACO team undertake a successful inventory survey of the affected land parcels and other assets within the project corridor
- Elaborate on the configuration of the transmission line corridor (40m wide) and substation.

KETRACO's mandate

KETRACO's Team Leader informed the community of the company's mandate. KETRACO is a government agency incorporated and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. He highlighted that KETRACO is 100% Government owned and being a state corporation, it is regulated under the State Corporations Act, Cap 446. The Company was established to develop new high voltage electricity transmission infrastructure that will form the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines includes 132kV, 220kV, 400kV and 500kV (HVDC). KETRACO's mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission grid and regional power interconnectors that will form the backbone of the National Transmission Grid.

Min 003: ESIA/RAP update justification

The Team also indicated the essence of the project. They informed the community that Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 51km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 28 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

The community was informed of the following changes in the route:

- i. Due to the change in site for the proposed substation, the line route was varied to a new orientation into the new the proposed substation site in Mbuta Location.
- ii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation affecting a stretch of approximately 5km within Mariakani and Kalalalni Location in Kilifi and Kwale Counties respectively
- iii. Line route variation within Mwatate, Bofu, Myenyenzi, Kasemeni and Gandini Locations to give room for the implementation of the proposed Mwache Dam. Whereby approximately 15km of the route have been varied.
- iv. A slight route variation at Kaya Gandini to reduce impact of the line on the Kaya.
- v. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project with the original route and a cumulative impact to the Mteza community.

The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have a been a significant impact to the community.

Therefore, to remedy this KETRACO technical team moved the route southward off the parent route by 1 to 2 km. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce its footprint to the minimum.

In light with the above changes in the route, the team indicated that to ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the ESIA and RAP for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation. The discussion also entailed:-

- The compensation procedures and processes
- Sensitization on vandalism
- The team also informed the community about the planned socioeconomic census for all project affected persons.
- The members were also sensitized on the need for safety measures when construction of the line will be done. And keep from climbing the pylons when they will be done

Project impacts

The team gave a brief on the potential positive and negative impacts from the project with their potential enhancement and mitigation measures respectively.

Min 004: Matters arising from the meeting (question and answer) Issues Raised During Stakeholder Consultation and Response

QUESTION	ANSWERS
(James) where exactly is the line passing? If one has an allotment letter will they be compensated?	<ul style="list-style-type: none"> • We will verify after the socio-economic census • The allotment letter will be verified and if it is genuine we will pay with the letter
(Hamisi Ndegwa) how do you compensate for houses if one parcel of land has 20 houses? do we pay the owner or the individual house owner	KETRACO pays individual house owners
(Mutual Kalu) does KETRACO compensate for burial sites?	The design of the transmission line offers liberty to undertake minimal tower spotting adjustments that give room for avoidance of graves along the RoW. However, in case that the graves are unavoidable, KETRACO shall in consultation with community administer measures that are culturally acceptable to enable moving of the graves.
(Peter) will KETRACO compensate for trees?	Yes crops and trees will be compensated along the transmission line.

After the transmission lines are completed will power be distributed to the community?	KETRACO only does the transmission lines and is not responsible for power distribution
(Hamisi Buru) if the required meters are 40 is 41 meters safe to build a structure?	Yes 41 meters is safe. The 40m distance given for implementation of the project is a safety buffer. Hence putting up a structure on the 41 st (21 st m from the centerline) is safe.

Min 005: Adjournment**Closing Remarks**

1. The area Chief closed the meeting and thanked the members present and the KETRACO team

Minutes prepared by:Name... Naami ChemoSignature... [Signature]Date... 07/03/2022**Confirmed by Senior Mariakani location**

HARRISON KATANA
CHIEF
MARIKANI LULATI
Date: 07/03/2022

Mnyenzi Location Minutes

MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING FOR RAP/ESIA UPDATE FOR MARIAKANI-DONGO KUNDU TRANSMISSION LINE HELD ON THE 9TH MARCH 2022 AT KASEMENI LOCATION MYENZENI SUBLOCATION AT THE CHIEF'S CAMP GROUND.

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize members of Kasemeni location (Mnyenzi sublocation) community of the on the proposed variation for the Mariakani DongoKundu Transmission Line.
- To notify the community of variation of proposed site for the Transmission Line.
- To notify the community on the essence of undertaking ESIA and RAP update
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Agenda

1. Opening remarks
2. Introduction and KETRACO mandate
3. ISIA/RAP update justification
4. Matters arising (questions and answer)
5. Adjournment

Min 001 : Opening Remarks

The meeting started at 10.20pm with a word of prayer from one of the community members.

The area assistant chief welcomed the community members and thanked them for showing up.

He also thanked KETRACO team for organizing for the meeting to sensitize the community.

Min 002: introduction

The purpose of holding the meeting was to achieve the following

- To inform the community about the upcoming proposed project.
- To sensitize them on how they are likely to be affected by the project and to also inform them that there has been changes/variations that have occurred on the proposed transmission line since the last sensitization meeting
- To inform them on how they are likely to be affected by the project on acquisition of land, crops, trees, and also potential loss of income
- To mention how valuation is going to be carried out on the affected properties and landowners and also the compensation process
- To seek permission from the community to carry out census survey exercise
- To request for support from the community to ease the process

KETRACO's mandate

KETRACO's Team Leader informed the community of the company's mandate. KETRACO is a government agency incorporated and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. He highlighted that KETRACO is 100% Government owned and being a state corporation, it is regulated under the State Corporations Act, Cap 446. The Company was established to develop new high voltage electricity transmission infrastructure that will form the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines includes 132kV, 220kV, 400kV and 500kV (HVDC). KETRACO's mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission grid and regional power interconnectors that will form the backbone of the National Transmission Grid.

Min 003: ESIA/RAP update justification

The Team also indicated the essence of the project. They informed the community that Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 51km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (**Ref: NEMA/EIA/5/2/1552**) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, **28** km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

The community was informed of the following changes in the route:

- i. Due to the change in site for the proposed substation, the line route was varied to a new orientation into the new the proposed substation site in Mbuta Location.
- ii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation affecting a stretch of approximately 5km within Mariakani and Kalalalni Location in Kilifi and Kwale Counties respectively
- iii. Line route variation within Mwatate, Bofu, Myenyezenzi, Kasemeni and Gandini Locations to give room for the implementation of the proposed Mwache Dam. Whereby approximately 15km of the route have been varied.
- iv. A slight route variation at Kaya Gandini to reduce impact of the line on the Kaya.
- v. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project with the original route and a cumulative impact to the Mteza community. The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the

ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have been a significant impact to the community.

Therefore, to remedy this KETRACO technical team moved the route southward off the parent route by 1 to 2 km. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce its footprint to the minimum.

In light with the above changes/variations on the route, the team indicated that to ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the ESIA and RAP for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation. The discussion also entailed:-

- The compensation procedures and processes
- Sensitization on vandalism
- The team also informed the community about the planned socioeconomic census for all project affected persons.

The members were also sensitized on the need for safety measures when construction of the line will be done. And keep from climbing the pylons when they will be done.

Project impacts

The team gave a brief on the potential positive and negative impacts from the project with their potential enhancement and mitigation measures respectively.

Min 004: Matters arising (questions and answer)

Issues Raised During Stakeholder Consultation and Response

QUESTION	ANSWERS
(Charles Tsuma) what if the line breaks down how safe is the community?	The line is very safe incase the line breaks the line will go of automatically. But incase there is a damage the company will compensate.
(Tsuma Juma) what are the changes between the old line and the new line in terms of distance?	There is a 500 meter change between the two lines.
(Mwaulidi Chuma) if a family has two wives and one of the wives is affected who will be paid the wife or the husband?	<ul style="list-style-type: none"> • KETRACO will pay the affected person only when the family has sat down and agreed on who is to be paid KETRACO does not interfere with family decisions
(Alingo Mkoto) how will trees be compensated along the corridor?	Trees will be compensated along the corridor, the owner will be paid for the damaged trees.
(Mwangalio Mchenga) how will KETRACO compensate for the shrines in the community?	If the line will pass through a shrine it will be compensated according to the cultures of the area. The community will let us know what the process will be.
(Ndegwa Maden) how will trees be compensated if the person is a lease ?	KETRACO will compensate the owner

Min 005: Adjournment

Closing Remarks

1. The area Chief gave the vote of thanks
2. He highlighted that she was thankful to the Government for the project, for it would spur growth in the area
3. He emphasized to the community to accord their support towards the project
4. Having answered their burning queries, the meeting ended at 11:48 am, with prayers from one of the community members

Minutes prepared by:

Name.....Naomi Cheruto.....

Signature.....[Signature].....

Date.....09/03/2022.....

Confirmed by Assistant Chief Kasemeni location, Mnyenzi Sublocation

[Signature]
ASSISTANT CHIEF
MNYENZI SUB-LOCATION
P.O. Box 19, MAZERAS
9/3/2022
JOSEPH SITHIGA MUMBI

Gandini Location Minutes

MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING FOR RAP/ESIA UPDATE FOR MARIAKANI- DONGU KUNDU TRANSMISSION LINE HELD ON 9TH MARCH 2022 AT GANDINI LOCATION AT THE AP'S GROUND.

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize the Gandini community members of the proposed variation for the Mariakani Dongo Kundu Transmission Line
- To notify the community of variation of proposed site for the variation.
- To notify the community on the essence of undertaking ESIA and RAP update
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Agenda

1. Opening remarks
2. Introduction and KETRACO mandate
3. ESIA/RAP update justification
4. Matters arising from the meeting (question and answer)
5. Adjournment

Min 001: Opening remarks

The meeting started at 1:30pm with a word of prayer from one of the community members.

The area chief welcomed the community members and KETRACO team for showing up for the team.

Min 002: Introduction and KETRACO mandate

The purpose of holding the sensitization meeting with the project area community members was to achieve the following:

- Inform the community about the upcoming transmission line project
- To sensitize them on how they are likely to be affected by the project and also the changes/variations that have occurred since the last sensitization meeting
- To seek for permission to collect data during the census survey exercise
- Mention how valuation is going to be carried out on the affected property for compensation
- Request support from the community to enable the KETRACO team undertake a successful inventory survey of the affected land parcels and other assets within the project corridor
- Elaborate on the configuration of the transmission line corridor (40m wide) and substation

KETRACO mandate

KETRACO's Team Leader informed the community of the company's mandate. KETRACO is a government agency incorporated and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. He highlighted that KETRACO is 100% Government owned and being a state corporation, it is regulated under the State Corporations Act, Cap 446. The Company was established to develop new high voltage electricity transmission infrastructure that will form the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines includes 132kV, 220kV, 400kV and 500kV (HVDC). KETRACO's mandate is to plan, design, construct, own,

operate and maintain high voltage electricity transmission grid and regional power interconnectors that will form the backbone of the National Transmission Grid.

Min 003: ESIA/RAP update justification

The Team also indicated the essence of the project. They informed the community that Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 51km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 28 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

The community was informed of the following changes in the route:

- i. A change in site for the proposed substation, the line route was varied to a new orientation into the new the proposed substation site in Mbuta Location.
- ii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation affecting a stretch of approximately 5km within Mariakani and Kalalalni Location in Kilifi and Kwale Counties respectively
- iii. Line route variation within Mwatate, Bofu, Myenyenzi, Kasemeni and Gandini Locations to give room for the implementation of the proposed Mwache Dam. Whereby approximately 15km of the route have been varied.
- iv. A slight route variation at Kaya Gandini to reduce impact of the line on the Kaya.
- v. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project with the original route and a cumulative impact to the Mteza community.

The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have been a significant impact to the community.

Therefore, to remedy this KETRACO technical team moved the route southward off the parent route by 1 to 2km. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce to its footprint to the minimum

In light with the above changes in the route, the team indicated that to ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the ESIA and RAP for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation. The discussion also entailed:

- The compensation procedures and processes
- Sensitization on vandalism

- The team also informed the community about the planned socioeconomic census for all project affected persons.

The members were also sensitized on the need for safety measures when construction of the line will be done. And keep from climbing the pylons when they will be done.

Project impacts

The team gave a brief on the potential positive and negative impacts from the project with their potential enhancement and mitigation measures respectively.

Min 004: Matters arising from the meeting (question and answer)

Issues Raised During Stakeholder Consultation and Response

QUESTION	ANSWERS
My homestead is near electricity pole, and I don't have electricity in my homestead?	KETRACO deals with high voltage power and is not responsible for distribution of power
Is it true that KETRACO does not pay PAPs when the transmission line passes your land?	KETRACO compensates its PAPs, it holds payment whenever there is conflict but later pays when the conflict is solved.
(Msafi Machapa) what will happen to the PAPs who were initially affected?	Unfortunately, the line has moved because of Mwache dam. KETRACO only pays the people who have been affected.
(Astiwai Sawe) are crops compensated on the spot? Because some of the crops are our livelihood	KETRACO has a policy on paying crops

Min 005: Adjournment

1. The Chief thanked the members present and the KETRACO team
2. He thanked the community for attending the meeting
3. Having answered their burning queries, the meeting ended at 2:30pm, with prayers from one of the community members

Minutes prepared by:

Name.....Naomi Cheruto.....

Signature.....[Signature].....

Date.....09/03/2022.....

Confirmed by Senior Chief Gandini Location



Mtaa Location Minutes

MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING FOR RAP/ESIA UPDATE FOR MARIAKANI- DONGO KUDU TRANSMISSION LINE HELD ON THE 8TH MARCH 2022 AT MTAA LOCATION.

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize the Mtaa community members of the proposed variation for Mariakani Dongo Kundu Transmission Line.
- To notify the community of variation of proposed variation for the line.
- To notify the community on the essence of undertaking ESIA and RAP update
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Agenda

1. Opening remarks
2. Introduction and KETRACO mandate
3. ESIA/RAP update justification
4. Matters arising from the meeting (question and answer)
5. Adjournment

Min 001: OPENING REMARKS

The meeting started at 3:00pm with a word of prayer from one of the community members.

The area chief welcomed the community members and thanked them for turning up. He also extended his gratitude to KETRACO for calling for the meeting.

MIN 002: INTRODUCTION

The purpose of holding the sensitization meeting was to achieve the following:

- To inform the community about the upcoming proposed transmission line project
- To sensitize them on how they are likely to be affected by the project and to also inform them that there has been changes/variations that have occurred on the proposed transmission line since the last sensitization meeting
- Mention how valuation is going to be carried out on the affected property for compensation
- To seek permission to collect data during the exercise
- To request support from the community to enable the KETRACO team undertake a successful survey
- To elaborate on the configuration of the transmission line corridor

KETRACO's mandate

KETRACO's Team Leader informed the community of the company's mandate.

KETRACO is a government agency incorporated and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. He highlighted

that KETRACO is 100% Government owned and being a state corporation, it is regulated under the State Corporations Act, Cap 446. The Company was established to develop new high voltage electricity transmission infrastructure that will form the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines includes 132kV, 220kV, 400kV and 500kV (HVDC). KETRACO's mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission grid and regional power interconnectors that will form the backbone of the National Transmission Grid.

Min 003: ESIA/RAP update justification

The Team also indicated the essence of the project. They informed the community that Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 51km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 28 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

The community was informed of the following changes in the route:

- i. Due to the change in site for the proposed substation, the line route was varied to a new orientation into the new the proposed substation site in Mbuta Location.
- ii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation affecting a stretch of approximately 5km within Mariakani and Kalalalni Location in Kilifi and Kwale Counties respectively

- iii. Line route variation within Mwatate, Bofu, Myenyezenzi, Kasemeni and Gandini Locations to give room for the implementation of the proposed Mwache Dam. Whereby approximately 15km of the route have been varied.
- iv. A slight route variation at Kaya Gandini to reduce impact of the line on the Kaya.
- v. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project with the original route and a cumulative impact to the Mteza community.

The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence having off a potential 12 acres from the plain would have been a significant impact to the community.

Therefore, to remedy this KETRACO technical team moved the route southward off the parent route by 1 to 2 km. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce its footprint to the minimum.

In light with the above changes in the route, the team indicated that to ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the ESIA and RAP for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation. The discussion also entailed: The compensation procedures and processes

- Sensitization on vandalism
- The team also informed the community about the planned socioeconomic census for all project affected persons.
- The members were also sensitized on the need for safety measures when construction of the line will be done. And keep from climbing the pylons when they will be done

Project impacts

The team gave a brief on the potential positive and negative impacts from the project with their potential enhancement and mitigation measures respectively.

Min 004: Matters arising from the meeting (question and answer)**Issues Raised During Stakeholder Consultation and Response**

QUESTION	ANSWERS
(Mr. Johnson MZIMBA) What is the shift between the old line and the new line?	The shift is one and a half kilometers from the old line.
How is land used for quarry activities compensated?	KETRACO usually avoids quarry areas so as not to disrupt the economic income. If we pass through a quarry we usually require the documents showing the area is for quarry
(Samuel nguo) what is the valuation per acre of the land for the people who will be affected?	<ul style="list-style-type: none"> Currently valuation for land has not yet been done and KETRACO does not take or buy land but rather we compensate for loss of land use.

Min 005: Adjournment**Closing Remarks**

1. The area Chief thanked the members present and the KETRACO team
2. He emphasized to the community to offer their support during the process
3. Having answered their burning queries, the meeting ended at 4:20pm with prayers from one of the community members

Minutes prepared by:

Name... Naomi Chirito

Signature... Chirito

Date... 08/03/2022

Confirmed by Assistant Chief Mtaa location, Bofu Sub-location

[Signature] 8/3/2022
 ASST CHIEF
 Bofu Sub-location
 Mtaa location

Mbuguni Location Minutes

**MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING
FOR RAP/ESIA FOR MARIAKANI DONGO KUNDU TRANSMISSION LINE
HELD ON 10TH MARCH 2022 AT MBUNGUNI LOCATION AT THE CHIEF
CAMP.**

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize the members of Mbuguni community about the proposed variation for the Mariakani Dongo Kundu Transmission Line.
- To notify the community of variation of proposed site for the Transmission Line Variation.
- To notify the community on the essence of undertaking ESIA and RAP
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Agenda

1. Opening remarks
2. Introduction and KETRACO mandate
3. ESIA/RAP update justification
4. Matters arising from the meeting (question and answer)
5. Adjournment

Min 001: opening remarks

The meeting started at 11:20pm with a word of prayer from one of the community members.

The area chief welcomed the community members and KETRACO team for showing up for the team.

Min 002: Introduction

The purpose of holding the sensitization meeting with the project area community members was to achieve the following:

- Inform the community about the upcoming transmission line project
- To sensitize them on how they are likely to be affected by the project and also the changes/variations that have occurred since the last sensitization meeting.
- To seek for permission to collect data during the census survey exercise
- Mention how valuation is going to be carried out on the affected property for compensation
- Request support from the community to enable the KETRACO team undertake a successful inventory survey of the affected land parcels and other assets within the project corridor
- Elaborate on the configuration of the transmission line corridor (40m wide) and substation

KETRACO's mandate

KETRACO's Team Leader informed the community of the company's mandate. KETRACO is a government agency incorporated and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. He highlighted that KETRACO is 100% Government owned and being a state corporation, it is regulated under the State Corporations Act, Cap 446. The Company was established

to develop new high voltage electricity transmission infrastructure that will form the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines includes 132kV, 220kV, 400kV and 500kV (HVDC). KETRACO's mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission grid and regional power interconnectors that will form the backbone of the National Transmission Grid.

Min 003: ESIA/RAP update justification

The Team also indicated the importance of the project. They informed the community that Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 51km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure (**Ref: NEMA/EIA/5/2/1552**) which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, **28** km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, Environmental and Social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

The community was informed of the following changes in the route:

- i. Due to the change in site for the proposed substation, the line route was varied to a new orientation into the new the proposed substation site in Mbuta Location.
- ii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation affecting a stretch of approximately 5km within Mariakani and Kalalani Location in Kilifi and Kwale Counties respectively
- iii. Line route variation within Mwatate, Bofu, Myenzi, Kasemeni and Gandini Locations to give room for the implementation of the proposed Mwache Dam. Whereby approximately 15km of the route have been varied.
- iv. A slight route variation at Kaya Gandini to reduce impact of the line on the Kaya.
- v. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project with the original route and a cumulative impact to the Mteza community. The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have been a significant impact to the community. Therefore, to remedy this KETRACO technical team moved the route southward off the parent route by 1 to 2km km. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce to its footprint to the minimum

In light with the above changes in the route, the team indicated that to ensure that the project is implemented in an environmentally and socially sound manner, the

Proponent (KETRACO) is updating the ESIA and RAP for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation. The discussion also entailed:

- The compensation procedures and processes
- Sensitization on vandalism
- The team also informed the community about the planned socioeconomic census for all project affected persons.

The members were also sensitized on the need for safety measures when construction of the line will be done. And keep from climbing the pylons when they will be done.

Project impacts

The team gave a brief on the potential positive and negative impacts from the project with their potential enhancement and mitigation measures respectively.

Min 004: Matters arising from the meeting (question and answer)

Plenary discussion

Issues Raised During Stakeholder Consultation and Response

QUESTION	ANSWERS
(Mohammed Ali) initial PAPs demolished their houses because they were told the line would pass there. Will they be paid now that the line has moved?	KETRACO will pay for the structures that are there. If in the initial report the structure was there and now the structure is not there it will not be recorded.
(Ali Mwamkanya) in the initial report the trees that were taken have now dried up will they be compensated as per the initial report?	KETRACO pays for the tree as they are, whatever we find on the ground will be paid as it is.
(Babanya) some people have sold land where the line was who will be compensated?	The compensation for land shall be dully issued to the current owner of the land since he/ she is the holder of rights to the usage of the land.
(Ali Nzige) how will people know where the line has change and who is affected?	Within the month of March, KETRACO has scheduled a to walk the entire stretch of the transmission line with the local community elders so as to identify affected parcels and households.

Min 005: Adjournment

Closing Remarks

1. The Chief thanked the members present and the KETRACO team
2. Having answered their burning queries, the meeting ended at 12:45pm, with prayers from one of the community members

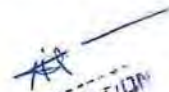
Minutes prepared by:

Name.....Nurmi R. K. N......

Signature.....Nurmi.....

Date.....10/03/2022.....

Confirmed by Senior Chief Mbuguni Location


CHIEF
MBUGUNI
LOCATION
90X
SATUR

Kalalani Location (Mwavumbo) Minutes

MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING FOR RAP/ESIA UPDATE FOR MARIAKANI- DONGO KUNDU TRANSMISSION LINE HELD ON THE 7TH MARCH 2022 AT KALALANI LOCATION AT MWANDA AREA.

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize the Kalalani community of the proposed variation of the Mariakani Dongo-Kundu Transmission Line.
- To notify the community on the essence of undertaking ESIA and RAP update.
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Min 002: Introduction

The purpose of holding the sensitization meeting with the project area community members was to achieve the following:

- Inform the community about the upcoming transmission line project
- To sensitize them on how they are likely to be affected by the project and also the changes that have occurred since the last sensitization meeting.
- To seek for permission to collect data during the census survey exercise
- Mention how valuation is going to be carried out on the affected property for compensation
- Request support from the community to enable the KETRACO team undertake a successful inventory survey of the affected land parcels and other assets within the project corridor
- Elaborate on the configuration of the transmission line corridor (40m wide) and substation

Min 001: Opening Remarks

The meeting started at 14:23 pm with a word of prayer from one of the community members.

The area chief welcomed the KETRACO team and thanked them for organizing the meeting and also Thanked the community members for turning up in huge number for the public meeting.

The KETRACO team introduced themselves to the community.

Min 002: Introduction and KETRACO mandate

The KETRACO team sensitized the community on matters concerning Mariakani – Dongo Kundu Transmission line.

The area covered included;

- Introduction of KETRACO as a company and its mandate

- The project background and the scope
- The importance of the project to the community
- The importance of public consultation
- The compensation procedures and processes
- Sensitized fully on vandalism
- Seek permission for us to conduct the socio census exercise

The members were also sensitized on the need for safety measures when construction of the line will be done. And also keep from climbing the pylons when they will be done.

KETRACO's mandate

KETRACO's Team Leader informed the community of the company's mandate. KETRACO is a government agency incorporated and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. He highlighted that KETRACO is 100% Government owned and being a state corporation, it is regulated under the State Corporations Act, Cap 446. The Company was established to develop new high voltage electricity transmission infrastructure that will form the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines includes 132kV, 220kV, 400kV and 500kV (HVDC). KETRACO's mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission grid and regional power interconnectors that will form the backbone of the National Transmission Grid.

Min 003: ESIA/RAP update justification

The Team also indicated the importance of the project. They informed the community that Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 51km 220kV transmission line from Mariakani to Dongo Kundu.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, 28 km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

The community was informed of the following changes in the route:

- Due to the change in site for the proposed substation, the line route was varied to a new orientation into the new the proposed substation site in Mbuta Location.
- Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation affecting a stretch of approximately 5km within Mariakani and Kalalalni Location in Kilifi and Kwale Counties respectively
- Line route variation within Mwatate, Bofu, Myenyenzi, Kasemeni and Gandini Locations to give room for the implementation of the proposed Mwache Dam. Whereby approximately 15km of the route have been varied.

- iv. A slight route variation at Kaya Gandini to reduce impact of the line on the Kaya.
- v. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project with the original route and a cumulative impact to the Mteza community.
- vi. The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have been a significant impact to the community.

Therefore, to resolve this KETRACO technical team moved the route southward off the parent route by 1 to 2km. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce to its footprint to the minimum

In light with the above changes in the route, the team indicated that to ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the ESIA and RAP for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation. the discussion also entailed: -

- The compensation procedures and processes
- Sensitized fully on vandalism
- Seek permission for KETRACO to conduct the socio-economic census exercise scheduled within the month of March.

The members were also sensitized on the need for safety measures when construction of the line will be done. And also keep from climbing the pylons when they will be constructed and will be operational.

Project impacts

The team gave a brief on the potential positive and negative impacts from the project with their potential enhancement and mitigation measures respectively.

Min 004: Matters arising from the meeting (Question and Answer) Issues Raised During Stakeholder Consultation and Response

QUESTION	ANSWERS
(Mr. Mwakala) will KETRACO use the same committee members for the project?	<ul style="list-style-type: none"> • New committees shall be constituted at the disclosure of the updated RAP document to the community.
(Mbala Galu) where will the new line pass?	<ul style="list-style-type: none"> • The surveyor gave description of the line route within the Kalalani location. The community was further informed that physical walking shall be undertaken by the KETRACO team in the company of the area leaders while undertaking census and collection of socio-economic information from the PAPs.

	<ul style="list-style-type: none"> The walking shall enable the community to know the new proposed route as per the variation.
(Katembe John) when will the project start? or is it a campaign strategy to get votes	<ul style="list-style-type: none"> The actual project start date is still unknown since the project is still at the planning stage. However, project preliminary activities are on course and once they are done and all necessary approvals and contract are on board, the construction shall begin.
(Mwazuma Mwambote) are we going to be paid for the delayed project? Since we were told not to build more buildings. What happens to landowners now that the line has been rerouted, will they be compensated?	<ul style="list-style-type: none"> Unfortunately the paps are not going to be compensated because there is no document that supports payment to be done for properties or crops that have not been destroyed.
(Dalu Mwithalu) is the reroute on the whole line, partially or on a small part?	<ul style="list-style-type: none"> The reroute (variation) does not affect the entire line but a few sections of the line due to a technical reason as explained before.

Min 005: Adjournment

There being no other business the meeting ended at 15:30 pm

Closing Remarks

1. The Chief thanked the members present and the KETRACO team
2. Having answered their burning queries, the meeting ended at 15:30pm, with prayers from one of the community members

Minutes prepared by:

Name..... Naomi Chirito

Signature..... Chirito

Date..... 01/03/2022

Confirmed by Senior Chief Location

confirmed.
Samuel
SALOMON L. DALLU
CHIEF MARIKANI
LOCATION
DATE 7-3-2022

Mwatate Location Minutes

**MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING
FOR RAP/ESIA UPDATE FOR MARIAKANI-DONGU KUNDU
TRANSMISSION LINE HELD ON THE 5TH MARCH 2022 AT MWATATE
LOCATION AT THE CHIEF'S CAMP GROUND.**

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize the Mwatate location community about the proposed variation for the Mariakani DongoKundu Transmission Line.
- To notify the community of variation/Changes of proposed site Transmission Line.
- To notify the community on the essence of undertaking ESIA and RAP
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Agenda

1. Opening remarks
2. Introduction and KETRACO mandate
3. ESIA/RAP update justification
4. Matters arising from the meeting (question and answer)
5. Adjournment

Min 001: Opening remarks

The meeting started at 11:50 am with a word of prayer from one of the community members.

The area chief welcomed the KETRACO staff for organizing for the meeting to sensitize the community on the proposed transmission line. He also thanked the community members for turning up in huge number for the public baraza.

The JICA Design Team on behalf of KETRACO undertook an Environmental and Social Impact Assessment (ESIA) study and Resettlement Action plan (RAP) for the power Transmission infrastructure which was submitted to NEMA for review. Approval was granted on 13th June 2019. However, **28** km of the original 53km transmission line route as presented in the approved ESIA report has been varied due to technical, environmental, and social reasons and KETRACO has since identified and firmed up an optimal route for the project. The new route is now 51 km long

The community was informed of the following changes in the route:

- i. Due to the change in site for the proposed substation, the line route was varied to a new orientation into the new the proposed substation site in Mbuta Location.
- ii. Line route variation at the point of line exit from the Mariakani Substation. The line exit route was varied for technical reasons to align it already established gantry within Mariakani substation affecting a stretch of approximately 5km within Mariakani and Kalalalni Location in Kilifi and Kwale Counties respectively
- iii. Line route variation within Mwatate, Bofu, Myenyenzi, Kasemeni and Gandini Locations to give room for the implementation of the proposed Mwache Dam. Whereby approximately 15km of the route have been varied.
- iv. A slight route variation at Kaya Gandini to reduce impact of the line on the Kaya.
- v. Line route variation in Mteza area (Gandini location). Here the line route was varied to avert a potential irreversible environmental and socio-economic of the project with the original route and a cumulative impact to the Mteza community.

The original route crossed the meandering Mteza River three times at different locations, cutting through its riparian reserve and flood plain that is currently used for coconut farming. Considering the ASAL-like condition of the area, the flood plain provides the only haven for coconut farming. Hence hiving off a potential 12 acres from the plain would have been a significant impact to the community.

Min 002: Introduction and KETRACO mandate

The purpose of holding the sensitization meeting with the project area community members was to achieve the following:

- Inform the community about the upcoming transmission line project
- To sensitize them on how they are likely to be affected by the project and also the changes/variation that have occurred since the last sensitization meeting.
- To seek for permission to collect data during the census survey exercise
- Mention how valuation is going to be carried out on the affected property for compensation
- Request support from the community to enable the KETRACO team undertake a successful inventory survey of the affected land parcels and other assets within the project corridor
- Elaborate on the configuration of the transmission line corridor (40m wide) and substation

KETRACO's mandate

KETRACO's Team Leader informed the community of the company's mandate. KETRACO is a government agency incorporated and registered under the Companies Act, Cap 486 pursuant to Sessional Paper No. 4 of 2004 on Energy. He highlighted that KETRACO is 100% Government owned and being a state corporation, it is regulated under the State Corporations Act, Cap 446. The Company was established to develop new high voltage electricity transmission infrastructure that will form the backbone of the National Transmission Grid, in line with Kenya Vision 2030. The voltage rating of the transmission lines includes 132kV, 220kV, 400kV and 500kV (HVDC). KETRACO's mandate is to plan, design, construct, own, operate and maintain high voltage electricity transmission grid and regional power interconnectors that will form the backbone of the National Transmission Grid.

MIN 003: ESIA/RAP update justification

The Team also indicated the essence of the project. They informed the community that Mombasa Special Economic Zone (SEZ) Project is part of the Big 4 Agenda, and one of the flagship projects in realizing Vision 2030. To provide stable and reliable power to the SEZ and its environs, KETRACO plans to construct a 51km 220kV transmission line from Mariakani to Dongo Kundu.

Therefore, to remedy this KETRACO technical team moved the route southward off the parent route by 1 to 2 km. This reduced the river crossings from three to one. The remaining crossing was shifted to the narrowest part of the river to reduce its footprint to the minimum.

In light with the above changes in the route, the team indicated that to ensure that the project is implemented in an environmentally and socially sound manner, the Proponent (KETRACO) is updating the ESIA and RAP for the transmission line. This will help us obtain information that will be used to identify potential impacts of the proposed route variation and hence propose adequate mitigation measures to be adhered to during project implementation. The discussion also entailed: -

- The compensation procedures and processes
- Sensitization on vandalism
- The team also informed the community about the planned socioeconomic census for all project affected persons.

The members were also sensitized on the need for safety measures when construction of the line will be done. And keep from climbing the pylons when they will be done.

Project impacts

The team gave a brief on the potential positive and negative impacts from the project with their potential enhancement and mitigation measures respectively.

Min 004: Matters arising from the meeting (question and answer)

Issues Raised During Stakeholder Consultation and Response

QUESTION	ANSWERS
(Mr. Nyambu Ochieng) Can one plant maize under the transmission line?	Yes, one can plant maize under the transmission line, the only thing that cannot be planted is tree that will grow more than 12m high
Will there be verification of landowners before compensation?	Yes, documents will be verified from land office to know the owner of the land.
How will the locals benefit from the project?	<ul style="list-style-type: none"> • Access to reliable power. • Casual job opportunities during construction phase. • Development in the SEZ will lead to development in other sectors e.g. industry, education, hospitals, agriculture, etc. These sectoral developments directly open up job opportunities for locals.

	<ul style="list-style-type: none"> • Enhanced business environment. • Direct and indirect, skilled and non-skilled employment opportunities. • General enhancement of the living standards of the residents.
(Kayema Gema) what will happen to the former PAPs on the transmission line?	KETRACO cannot pay a person who has not been affected by the transmission line.
(Ndoro Chacha) we are in a group ranch, what will happen if someone else is written and does not live there?	KETRACO will verify the documents and the landowners of the parcels

Min 005: Adjournment

There being no other business the area chief thanked the community and KETRACO team for facilitating the public baraza the meeting ended with prayers at 13:09.

Closing Remarks

1. The Chief thanked the members present and the KETRACO team for facilitating the public baraza
2. Having answered their burning queries, the meeting ended at 13:09pm, with prayers from one of the community members

Minutes prepared by:

Name.....Naomi Cheruto.....

Signature.....Cheruto.....

Date.....08/03/2022.....

Confirmed by Senior Chief Mwatate location

CHIEF
MWATATE LOCATION
Cheruto
08/03/2022

DongoKundu (Mbuta/Mtongwe Location) Minutes

**MINUTES OF PUBLIC CONSULTATION AND SENSITIZATION MEETING
FOR THE PROPOSED DONGO KUNDU 220kV SUBSTATION (WITHIN
THE MOMBASA SPECIAL ECONOMIC ZONE-SEZ) HELD ON 28TH
SEPTEMBER 2021 AT MTONGWE LOCATION AT THE DCC GROUNDS
AS FROM 1000HRS.**

Members Present

Signed attendance list attached

Meeting Objective:

- To sensitize the Mtongwe community of the proposed Dongo Kundu substation, located within Mombasa SEZ.
- To notify the community of variation of proposed site for the substation.
- To notify the community on the essence of undertaking ESIA
- To collect views from the community on the potential positive and negative impacts of the project and appropriate enhancement and mitigation measures respectively.

Agenda

1. Preliminaries
2. KETRACO's mandate
3. ESIA update justification
4. Project impacts
5. Plenary discussion
6. Close of meeting.

Introduction

1. Meeting started at 1000hrs.
2. Members present: locals, Assistant Chief Mtongwe sub-location, Village Elders, Leaders of Community Resource User Interest Groups, ESIA team (See attached list).
3. Meeting was conducted in Swahili.

project activities that will result into vast tree felling?	cut to pave way for construction activities. Clean up activities can also be organized to restore the land to its status before construction activities.
(Said Bidu) How involved will KERACO be in the resettlement of PAPs?	Resettlement issues related to the Substation will not be dealt with by KETRACO but with SEZA in conjunction with KPA as we have not purchased the land in question.
(Suleiman Said) What are the location boundaries? Will the project impact on our main water source, Temba?	Once the project has been firmed up, the areas affected will be clearly communicated. Additionally, the Public was assured that Ketraco in collaboration with other pertinent areas of will map out the substation area in relation to adjacent sites of ecological and socio-cultural significance like the Tembo water source (Kaya) to ascertain if they are likely to be affected by the project and consequent actions to avoid/and or mitigate the impacts.
(Mohammed Kinyanga) Where does the electricity go from the substation?	The substation will be the terminal of the Mariakani- Dongo Kundu TL. Power will be used within the SEZ and the neighboring areas through Kenya Power LV distribution lines.
(Mohammed) Should our land activities end in light of the upcoming substation project on the proposed land?	No, land use can be continued up until firming up of the project done.
(Abdi John Kiongi) How will KETRACO assist those of us who underwent losses as a result of the initial substation site that has since changed?	For any complaints, the PAP was advised to write to KETRACO illustrating the same.
(Mohammed) How will	Upon commencement of construction

4. The members in attendance were issued with a hand sanitizer and face masks. The team lead from Ketraco equally advised the public to ensure they strictly follow the laid down MoH Covid-19 mitigation protocols.
The public baraza was planned to limit the number of attendants to 30pax for a period not exceeding 2 hours.
5. The meeting ended at 1200hrs.


Issues Raised During Stakeholder Consultation and Response

QUESTION	ANSWERS
(Mohammed Ali) What is the likelihood of getting connected to the power resulting from construction of the proposed substation?	The essence of the substation will be to provide reliable and stable power for the operationalization of the proposed Mombasa SEZ as well to the neighboring community through Kenya Power's LV lines.
(Mohammed Ali) How will the locals benefit from the project?	<ul style="list-style-type: none"> • Access to reliable power. • Casual job opportunities during construction phase. • Development in the SEZ will lead to development in other sectors e.g. industry, education, hospitals, agriculture, etc. These sectoral developments directly open up job opportunities for locals. • Enhanced business environment. • Direct and indirect, skilled and non-skilled employment opportunities. • General enhancement of the living standards of the residents.
(Mohammed Ali) Does KETRACO purpose to ensure tree rehabilitation following the	Ketraco is committed towards environmental conservation through donating tree seedlings to communities to replace the trees that were

KETRACO assist in controlling dust that will result from construction activities?	activities, contractors are advised to sprinkle water to prevent dust pollution.
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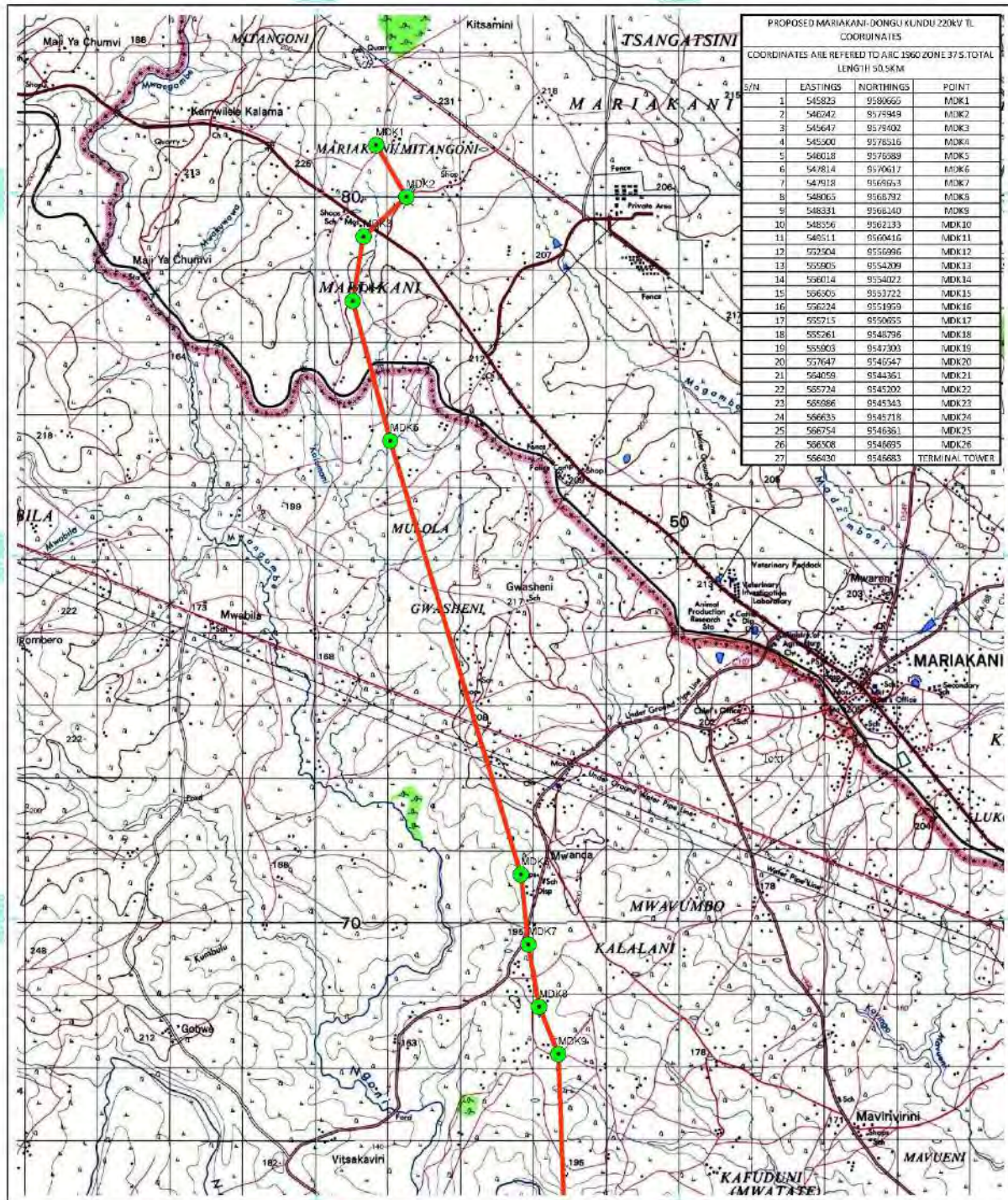
Closing Remarks



1. The Senior Chief thanked the members present and the KETRACO team
2. She highlighted that she was thankful to the Government for the project, for it would spur growth in the area
3. She pointed out that together with the community members they would decide on the necessary projects that would be beneficial to all, and submit proposals to KETRACO
4. Having answered their burning queries, the meeting ended at 1200hrs, with prayers from one of the community members

Minutes prepared by:Name Clifford M. SiachaSignature Date 01/10/2021**Confirmed by Senior Chief Mtongwe Sub-location**Name FATUMA J. KHANUSISignature  CHIEF
MTONGWE - LOCATION
LIKONIDate 01/10/2021

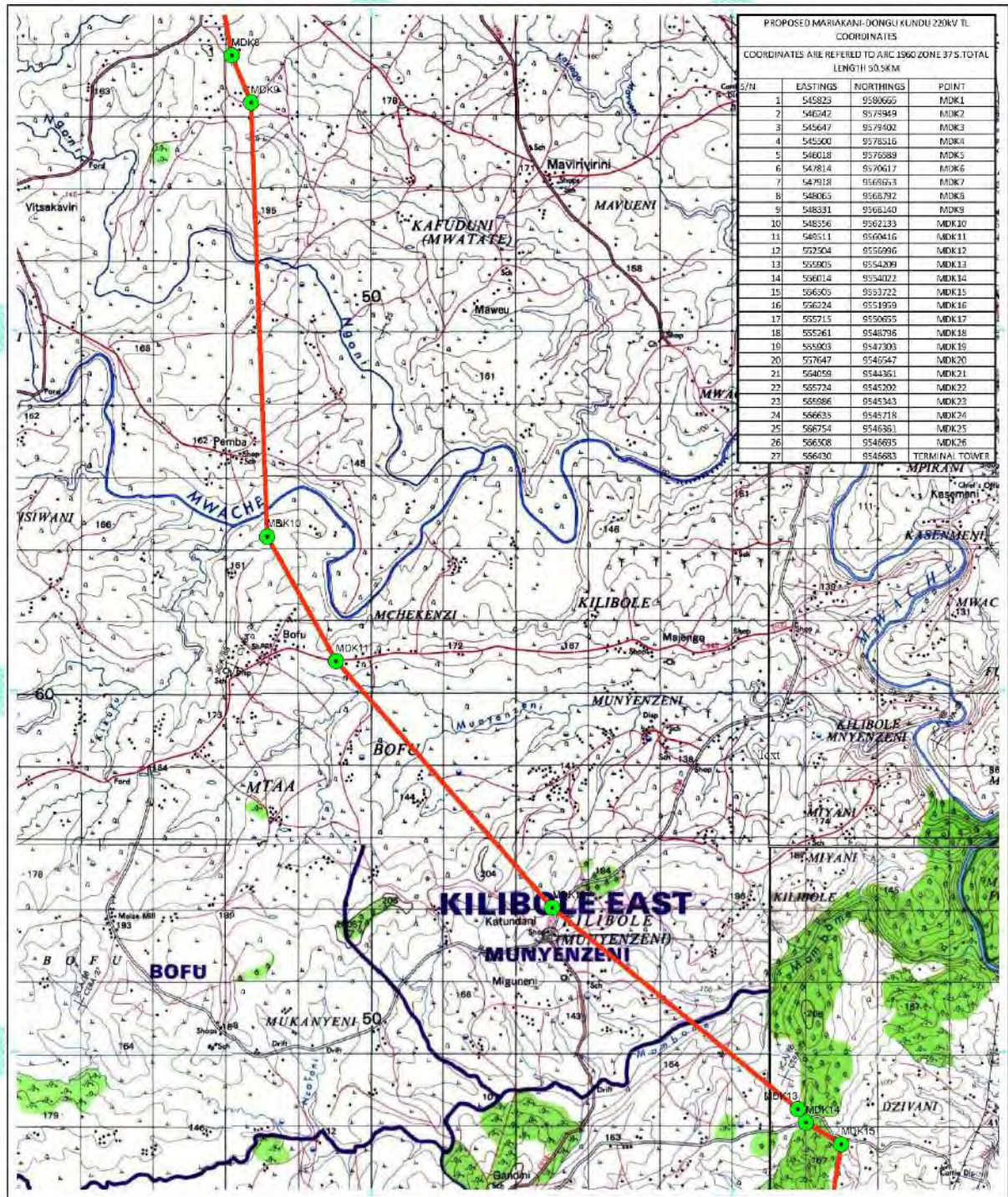
Annex 7: Topo Maps



PROPOSED MARIAKANI-DONGU KUNDU 220 kV TL



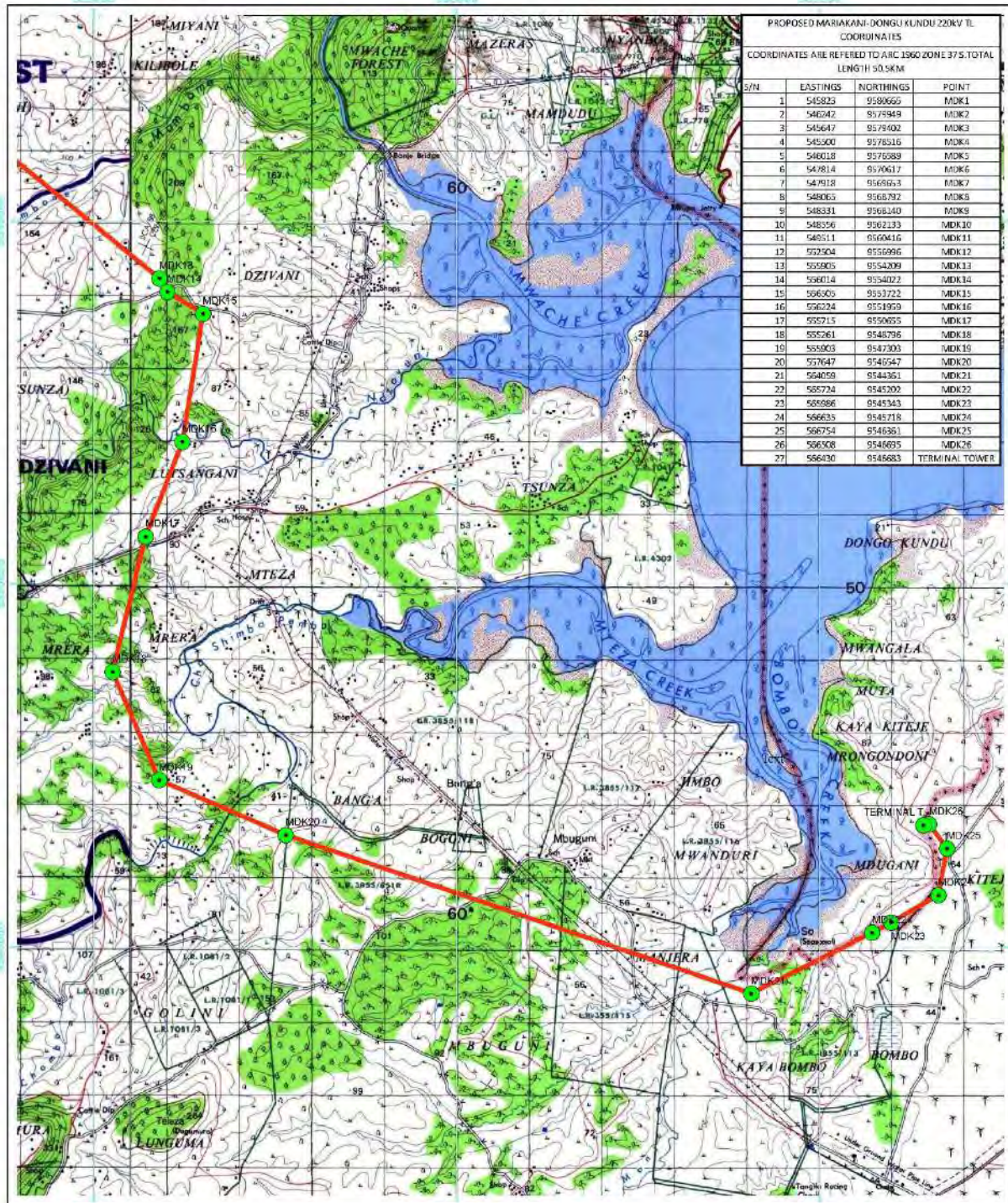
 <p>KETRACO Building a World Class National Grid</p> <p>APPENDIX 2</p>	<p>GRID :UTM ZONE 37S DATUM :ARC 1960 UNITS :METERS SCALE :1:50,000</p> <p>THIS IS MAPS FOR PURPOSES OF INDICATING PROPOSED WAYLEAVE TRACE OF MARIAKANI-DONGU KUNDU TL LINE AND IS NOT AN AUTHORITY ON BOUNDARIES</p>		<p>Legend</p> <p>MDK ANGLE POINTS</p> <p>MDK TRANSMISSION LINE</p>	<p>COMPILED BY DOUGLAS K.MUTHUA</p> <p>CHECKED BY ROBERT KILIMO</p> <p>DATE:NOV 2021</p>
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PROPOSED MARIAKANI-DONGU KUNDU 220 kV TL



 <p>KETRACO Building a World Class National Grid</p> <p>APPENDIX 2</p>	<p>GRID :UTM ZONE 37S DATUM :ARC 1960 UNITS :METERS SCALE :1:50,000</p> <p>THIS IS MAP IS FOR PURPOSES OF INDICATING PROPOSED WAYLEAVE TRACE OF MARIAKANI-DONGU KUNDU TL LINE AND IS NOT AN AUTHORITY ON BOUDARIES</p>		<p>Legend</p> <p>MDK ANGLE POINTS</p> <p>MDK TRANSMISSION LINE</p>	<p>COMPILED BY DOUGLAS K.MUTHUA</p> <p>CHECKED BY ROBERT KILIMO</p> <p>DATE:NOV 2021</p>
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PROPOSED MARIAKANI-DONGU KUNDU 220 kV TL



 <p>KETRACO Building a World Class National Grid</p> <p>APPENDIX 2</p>	<p>GRID :UTM ZONE 37S DATUM :ARC 1960 UNITS :METERS SCALE :1:50,000</p> <p>THIS IS MAP IS FOR PURPOSES OF INDICATING PROPOSED WAYLEAVE TRACE OF MARIAKANI-DONGU KUNDU TL LINE AND IS NOT AN AUTHORITY ON BOUNDARIES</p>		<p>Legend</p> <p>● MDK ANGLE POINTS</p> <p>— MDK TRANSMISSION LINE</p>	<p>COMPILED BY DOUGLAS K.MUTHUA</p> <p>CHECKED BY ROBERT KILIMO</p> <p>DATE:NOV 2021</p>
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Annex 8: - SEZA Letter to allocate Ketraco the current substation site in DongoKundu



**SPECIAL
ECONOMIC
ZONES
AUTHORITY**

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Office of the Chief Executive Officer

When replying please quote:

Ref: SEZA/DEV/DONGOKUNDU Vol. 2

Date: 12th July, 2021

FCPA Fernandes Barasa, OGW

Managing Director

Kenya Electricity Transmission Co. Ltd

KAWI Complex South C

NAIROBI

Dear Sir

**REF: LOCATION OF DONGO KUNDU SUBSTATION FOR THE MOMBASA SPECIAL
ECONOMIC ZONE DEVELOPMENT PROJECT(SEZ)**

Reference is made to your letter Ref. KET.4A/3/08/AM/vnm/002 dated 24th June, 2021 regarding the above-mentioned subject. SEZA appreciates the effort made by KETRACO to locate the substation within the indicated area.

We have reviewed the alternative parcel identified by KETRACO as being more suited to the technical requirements. SEZA has approved the recommended substation location as proposed in the attached drawing.

Yours Sincerely,

Dr. Meshack Kimeu

Ag. CHIEF EXECUTIVE OFFICER

