

**MINUTES**

# Proposed Lokichar to Lamu Crude Oil Pipeline Project: Baseline Consultation

*Kachiuru Community Meeting: 31 October 2018 – Mantile Hall*

Submitted to:

**Pipeline Project Management Team**

Submitted by:

**Golder Associates (UK) Ltd**

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31 October 2018



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## APPENDICES

### APPENDIX A

List of Attendees

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Presentation

## PURPOSE OF THIS DOCUMENT

This document represents the minutes taken during a public meeting convened as part of the Environmental and Social Impact Assessment (ESIA) for the proposed Lokichar to Lamu Crude Oil Pipeline (LLCOP) project in Kenya. The document presents a summary of the issues, concerns, questions, and suggestions raised by the stakeholders who attended the meeting. The meeting was held on Wednesday, 31 October 2018 at Mantile Hall, Kachiuru, Meru County.

The objective of the meeting was to provide stakeholders with more information about the proposed LLCOP project and associated mitigation measures. The meeting also provided stakeholders with an opportunity to contribute comments, suggestions and raise issues of concern. Issues and questions raised during the meeting were captured in the Comment and Response Report. This report will form part of the final ESIA report to be submitted to the relevant authority for a decision.

### Your comments are important!

Stakeholders who attended the meeting are invited to review the draft minutes and ensure that the questions, concerns, and comments have been captured correctly. Please send any comments and changes that you would like to make within 14 days of receipt to the public participation office.

### Address for Comments:

**Mr James Kambo**

Stakeholder in-country lead (ESF Consultants)

**Telephone**

(+254) 736 100205

**Email**

[james.kambo@esfconsultants.org](mailto:james.kambo@esfconsultants.org)/[ppoffice@golder.co.za](mailto:ppoffice@golder.co.za)

**Address**

Woodlands Office Park,  
1C Suite 1<sup>st</sup> Floor  
Woodlands Road, off Lenana Road  
PO Box 7745-00100  
Nairobi, Kenya

## 1.0 WELCOME AND INTRODUCTION

The meeting was brought to order by the Assistant County Commissioner, Mr Robert Wang'ombe at 10h15. He welcomed and thanked the guests for attending the meeting. Mr Wang'ombe requested a volunteer to open the meeting with a prayer. Mr Issak Daro opened the meeting with a prayer. The Assistant County Commissioner asked people to air their concerns, issues, and comments about the project. He also emphasised the need of participants to be keen with the information that was going to be given to them about the project. He invited Mr Hajir to run through the agenda of the meeting.

## 2.0 ATTENDEES

181 attendees signed the attendance register. The list of attendees who signed the register and took part in the proceedings is attached in APPENDIX A.

## 3.0 AGENDA

The following agenda was presented to, and accepted by the participants:

- 1) Introduction
- 2) Attendance
- 3) Agenda
- 4) Purpose of meeting
- 5) Project team
- 6) Project progress
- 7) Summary of scoping consultation
- 8) Community *barazas* (public meetings)
- 9) Community consultation approach
- 10) Social baseline
- 11) ESIA focus
- 12) Stakeholder engagement focus
- 13) Discussions
- 14) Way forward
- 15) Closure

## 4.0 PURPOSE OF THE MEETING

Mr Mohamed Hajir explained the purpose of the meeting was to:

- Present progress on the planning activities of the LLCOP project and delivery teams.
- Provide an update of the ESIA scoping phase findings, issues, comments and responses regarding the proposed project and associated approach.
- Discuss the proposed community stakeholder consultation approach.
- Discuss the social baseline development process.

- Receive any comments on the above findings and the proposed approach to community engagements.
- Indicate how stakeholders can participate in the future.

## 5.0 PROJECT TEAM

Mr Mohamed Hajir introduced the project teams and explained the role each team plays in the LLCOP project as follows:

- The government of Kenya – sets the strategy;
- LAPSSET Corridor Development Authority (LCDA) – the authority responsible for the development of the LAPSSET corridor;
- Pipeline Project Management Team (PPMT) – the partnership between government (Ministry of Mining and Petroleum – MoMP) and oil companies to develop the pipeline project; and
- Golder and ESF Consultants – the independent consultants, appointed to undertake the ESIA.

## 6.0 PROJECT BACKGROUND

An overview and background of the proposed project were presented to attendees. All development projects are subject to an ESIA process in terms of the Environment Management and Coordination Act (2015). This is the first permitting study undertaken for the proposed LLCOP project. Several related studies have been undertaken and include a Strategic Environmental Assessment for the LAPSSET corridor project and an ESIA study for the Kenya Upstream Oil Development project.

Golder Associates, in partnership with ESF Consultants, Kenya, have been appointed to undertake the ESIA study.

## 7.0 PROJECT DESCRIPTION

### 7.1 Overview

The LLCOP project is a development initiative under a joint partnership between the Kenya Government and the consortium consisting of Tullow Oil Kenya B.V., Africa Oil Turkana Ltd and Total Oil (formally Maersk Oil). The proposed LLCOP project is an onshore pipeline that will provide transportation of crude oil from the production fields in South Lokichar to the marine export facility at the Port of Lamu. There it will be stored and onward exported to international markets. The project will link the upstream oil fields (being permitted separately) with international markets.

### 7.2 Route

The LLCOP project will commence at a flange point in Turkana County, south-east of the Lokichar oil fields, and end at the Port of Lamu. The LLCOP route is within the LAPSSET corridor and will cut across Turkana, Samburu, Isiolo, Meru, Garissa and Lamu counties. The crude oil pipeline will be approximately 820 kilometres long. Areas of land where the proposed pipeline will pass will be acquired by the government and leased to the project.

### 7.3 Technical Aspects

The proposed project will be executed in a phased manner. The construction time will be approximately two to three years.

The construction of the pipeline will entail excavation of a trench, two metre in depth, along the proposed pipeline route. A conventional trench and backfill construction methodology will be followed. The pipeline will be buried throughout its length with a minimum of one metre of soil cover. The pipe itself will be 18 or 20 inches in diameter. The proposed pipeline will need a 30 metre width for construction and a six metre width for operations. Due to

the heavy and waxy consistency of the crude oil, the pipeline will be heated and insulated to keep the crude oil at the optimum viscosity for pumping. The heating will be done through a longline trace system.

There will be approximately 16 intermediate above ground installations (either co-located or standalone), which include pump stations, pressure reduction stations, and electrical generators.

A marine terminal will be constructed at the Port of Lamu. The terminal will comprise storage facilities (1.5 million barrels capacity), a loading line and a marine platform with breasting and mooring structures. The Lamu terminal options under evaluation are an onshore storage and offloading jetty, or a floating storage and offloading vessel. The onward exportation of the crude oil to international markets will take place by ship.

## 8.0 ESIA PROCESS

This ESIA is being undertaken to acquire the necessary permits to implement the proposed project. The Environmental Management and Coordination Act of 2015 provides detailed guidelines on conducting Environmental Impact Assessments (EIAs) in Kenya. The Act states that all new projects that are likely to affect the environment in any way must undertake an ESIA, and the ESIA report should then be submitted to NEMA for review and approval.

The objective of this ESIA study is to investigate and identify the positive and negative impacts of the pipeline construction and operations. The study will then generate feasible mitigation measures for adverse impacts through an Environmental and Social Management Plan. These studies and recommendations will be done through field investigations, document review, professional analysis, and stakeholder engagements.

### The ESIA process entails the following elements:

**Scoping Study** – An initial field and baseline data reviews as well as early stakeholder engagement to define the scope of the ESIA.

**Terms of Reference (ToR)** – During this phase, the framework and proposed methodology for the assessment of environmental and social impacts are developed. The ToR phase includes a presentation of the project, proposed ESIA update process and the public consultation process.

**Environmental Impact Study (EIS)** – This phase entails an impact assessment and will address the issues raised during the ToR phase. A Draft EIS report will be developed and presented to the public for review and discussion. The EIS is then finalised and submitted to NEMA for approval (the decision-making phase).

The ESIA permitting study should be completed by March 2019.

## 9.0 CONSULTATION PROCESS

The stakeholder engagement process is a requirement of the Kenya Environmental Impact Assessment guidelines and is being undertaken to provide the opportunity for communities, potentially affected and interested people to participate by raising issues, concerns, asking questions and contributing local knowledge.

Stakeholder participation in the process will help to identify and address their concerns early in the project design phase. Stakeholder contributions collected during this process will be recorded and made publicly available in a Comment and Response Report for people to verify that their contributions have been recorded correctly. Special efforts will be made to engage with potentially directly affected people, including women, the youth, as well as local, regional, and national educational and religious organisations, research institutions, non-governmental organisations, and other key organisations. Public meetings and workshops will be held to record comments and suggestions from the public.

This ESIA process commenced in March 2018 and will be completed in March 2019. Availability of reports, times, and location of public meetings will be advertised in the local media and via site notices. The final EIS update will be made available in public places, for review.

Stakeholders will be informed throughout the stakeholder engagement process of this ESIA. Any queries and concerns can be raised at any time through the contacts provided.

## **10.0 IDENTIFICATION OF ISSUES**

All questions, issues, comments, and associated responses raised during the discussion session are captured in Table 1.



**Date of meeting: 31 October 2018**

**Venue: Mantile Hall, Kachiuru, Meru County**

**Table 1: Identified issues, questions, comments, and responses**

|   | Meeting   | Issue/Question/Comments  | Commentator  | Response   |
|---|---|--|--|--|
| 1 | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | Oil leakages can cause negative effects on our land and environment.<br><br>Cutting down trees in the 500 m corridor will have a negative impact on our environment. Trees take a long period to mature.                         | Gerald Kamento<br><br>Business man and farmer        | Oil leakages will be monitored to minimise impacts on the environment.<br><br>There will be an environmental management plan to address the issue of land rehabilitation and restoration after project activities. |
| 2 | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | Will there be employment opportunities?<br><br>How will the pipeline pass over rivers?   | Simon M. Maore<br><br>Retired Senior Assistant Chief | Employment opportunities will be limited since the process will be highly mechanised.<br><br>The pipeline will pass under rivers.  |
| 3 | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | The trees that are along the corridor are an important source of food for our livestock.   | Peter Muriungi                                       | We shall consider this in our report and put forward recommendations to reduce the impacts on the trees.   |
| 4 | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | Daba Longolicha Community Ranch where the corridor will be passing through, has a lot of natural resources including gold and mercury. How will we be compensated for such resources if any are found during project activities? | Mustafa Mohamed                                      | The National Land Commission and LAPSET will have a discussion with the community about the corridor passing through the community ranch and how compensation for the ranch will be addressed.                     |
| 5 | Kachiuru Community Meeting                                  | Can the government issue us with title deeds before buying the land?   | Makayo Sukuja  | The National Land Commission will address this issue better. They will engage with the community separately  |

|    | Meeting   | Issue/Question/Comments   | Commentator          | Response   |
|----|---|---|----------------------|--|
|    | 31 <sup>st</sup> October 2018                               |   |                      | where all questions related to land acquisition and compensation will be answered.   |
| 6  | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | Social vices such as rape and early pregnancies might be brought in by the people coming to construct the pipeline. Are there plans to mitigate such impacts? | Samuel Ntoiti        | This concern will be included in our report and mitigation measures included.  |
| 7  | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | Will we have lunch after the meeting?   | Musa Joshua          |  |
| 8  | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | The LAPSSET corridor might interfere with the movement of our livestock.  | John Kaberia Solomon | Specialist mitigation recommendations will ensure that the pipeline does not interfere with the movement of livestock.   |
| 9  | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | How will the land be compensated?   | Silas Wario          | The National Land Commission will answer questions on land compensation during their stakeholder engagement.   |
| 10 | Kachiuru Community Meeting<br>31 <sup>st</sup> October 2018 | Will farmers be given trees to plant to replace the ones that will be affected by project activities or will there be a nursery for our indigenous trees?     | John Mweti           | The question regarding the replacement of trees is an important question, and will be included in our report for consideration.<br><br>There will be a land restoration and rehabilitation plan that will be implemented after project activities that will ensure that trees that were cut down are replaced. |

## 11.0 FUTURE INTENTIONS

Mr Mohamed Hajir indicated that the information sourced during the meeting would be captured in formal minutes and a comments and responses register. He added that there might be another meeting with the community to confirm that all their issues had been captured in the draft report. Mr John Mwetli closed the meeting with a word of prayer.

## 12.0 CLOSURE

All participants were thanked for their attendance, comments, and input. The issues would be captured and the meeting minutes distributed in due course. Mr Mohamed Hajir closed the meeting.

## Signature Page

### Golder Associates (UK) Ltd



James Kambo  
*Stakeholder in-country lead (ESF Consultants)*



Tim Flower  
*Project Manager*

JK/SA

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**APPENDIX A**

**List of Attendees**

**Table 2: Attendees who signed the register and took part in proceedings, grouped by organisation**

|     | Name              | Organisation |
|-----|-------------------|--------------|
| 1.  | Robert Wang'ombe  | A.C.C        |
| 2.  | Abdulaziz Godana  | Business     |
| 3.  | Aidullah Tachee   | Business     |
| 4.  | Ali Mohammed      | Business     |
| 5.  | Batista Kobia     | Business     |
| 6.  | Benjamin Mitheka  | Business     |
| 7.  | Bilali Ali        | Business     |
| 8.  | Chamun Kemati     | Business     |
| 9.  | Charles Mtonja    | Business     |
| 10. | Charles Nungo     | Business     |
| 11. | Cyprian Kalunge   | Business     |
| 12. | Daniel Mmukiri    | Business     |
| 13. | Daniel Muchiri    | Business     |
| 14. | David Mwiti       | Business     |
| 15. | Fatuma Wako       | Business     |
| 16. | Festus Kobia      | Business     |
| 17. | Garro Jillo       | Business     |
| 18. | Gerald Gkendi     | Business     |
| 19. | Gerald Wiri       | Business     |
| 20. | Godwin Mwendwa    | Business     |
| 21. | Hassan Bollo      | Business     |
| 22. | Hassan Ibrahimali | Business     |
| 23. | Hawo Sharif       | Business     |
| 24. | Henery Ntomiii    | Business     |
| 25. | Henry Koome       | Business     |
| 26. | Ibrahim Roba      | Business     |
| 27. | Isaac M. Hirikuui | Business     |

|     | Name                 | Organisation            |
|-----|----------------------|-------------------------|
| 28. | Isaiah Mkiunga       | Business                |
| 29. | J. M. Ngia           | Business                |
| 30. | James Beriu          | Business                |
| 31. | Japeth Mutwiri       | Business                |
| 32. | John Kaberia Solomon | Business                |
| 33. | Joseph Kalengwe      | Business                |
| 34. | Joseph Murugi        | Business                |
| 35. | Joshua Mwendwa       | Business                |
| 36. | Julius Kamencu       | Business                |
| 37. | Julius Kuyoo         | Business                |
| 38. | Lazarus Mananga      | Business                |
| 39. | Martha Cismuramba    | Business                |
| 40. | N'muchiri Bekilange  | Business                |
| 41. | Pehaha Kananu        | Business                |
| 42. | Peter Kathira        | Business                |
| 43. | Peter Kirimi         | Business                |
| 44. | Peter Mimiimee       | Business                |
| 45. | Peter Mugambi        | Business                |
| 46. | Samuel Kabwie        | Business                |
| 47. | William Bariu        | Business                |
| 48. | William Kinyua       | Business                |
| 49. | Zakayo Muriuki       | Business                |
| 50. | Gerald Kamento       | Business man and farmer |
| 51. | Aaba Daso            | Chukulisa               |
| 52. | Isaac Dura           | Duka                    |
| 53. | Andrew Tuluba        | Famer                   |
| 54. | Andrew Kamunjui      | Farmer                  |
| 55. | Andrew Kirugwi       | Farmer                  |

|     | Name                     | Organisation           |
|-----|--------------------------|------------------------|
| 56. | Asili Wako               | Farmer                 |
| 57. | Barwa Kodulacha          | Farmer                 |
| 58. | Charles Mithika          | Farmer                 |
| 59. | Chukulisa Kala           | Farmer                 |
| 60. | David Mutuma             | Farmer                 |
| 61. | Esther Kaendo            | Farmer                 |
| 62. | Fridah Kanario           | Farmer                 |
| 63. | Geofrey Mithika          | Farmer                 |
| 64. | Johana Murungi           | Farmer                 |
| 65. | Julius Asuku             | Farmer                 |
| 66. | Julius Kainga M'kaibuala | Farmer                 |
| 67. | Justier                  | Farmer                 |
| 68. | Kabiba Jadesa            | Farmer                 |
| 69. | Maore Mwirui             | Farmer                 |
| 70. | Mary Kalayu              | Farmer                 |
| 71. | Moses Mbuciana           | Farmer                 |
| 72. | Patrick Gitonga          | Farmer                 |
| 73. | Peter Kabui              | Farmer                 |
| 74. | Sarah Kanario            | Farmer                 |
| 75. | Tabither                 | Farmer                 |
| 76. | Julius Minyingi          | Farmer/Carpenter       |
| 77. | Julia Threde             | Igombe                 |
| 78. | Mary Kobia               | Igombe                 |
| 79. | Misheik Kaberia          | Igombe                 |
| 80. | Feiza Mohamed            | Igombe Self-Help Group |
| 81. | Flora Atia               | Igombe Self-Help Group |
| 82. | Grace Mukii Mwirabua     | Igombe Self-Help Group |
| 83. | John Gitonga             | Igombe Self-Help Group |



|      | Name              | Organisation           |
|------|-------------------|------------------------|
| 84.  | Safia Dache       | Igombe Self-Help Group |
| 85.  | Silas Itiame      | Igombe Self-Help Group |
| 86.  | Vezero Muula      | Igombe Self-Help Group |
| 87.  | John Mungatha     | Kabachi                |
| 88.  | Abdinasir Huka    | Kachiuru               |
| 89.  | Abdirami Hussein  | Kachiuru               |
| 90.  | Alech Bosso Abdi  | Kachiuru               |
| 91.  | Galigalo Yako     | Kachiuru               |
| 92.  | Hassan Ilole      | Kachiuru               |
| 93.  | Hussein Abdullahi | Kachiuru               |
| 94.  | Jacob Mantili     | Kachiuru               |
| 95.  | Jeremiah Ngamati  | Kachiuru               |
| 96.  | Julius Marithi    | Kachiuru               |
| 97.  | Julius Mwenda     | Kachiuru               |
| 98.  | Macharius Nkunja  | Kachiuru               |
| 99.  | Musa Hussein      | Kachiuru               |
| 100. | Muthomi Jackson   | Kachiuru               |
| 101. | Mwenda Frako      | Kachiuru               |
| 102. | Naman Mutuma      | Kachiuru               |
| 103. | Samuel Ntoiti     | Kachiuru               |
| 104. | Peter Kiburi      | Kachiuru               |
| 105. | Peter Mastar      | Kachiuru               |
| 106. | Pizzaro Ncooro    | Kachiuru               |
| 107. | Sailas Kanyaru    | Kachiuru               |
| 108. | Halkano Kinyuria  | Kachiuru Hotel         |
| 109. | Mohamed Hassan    | Kachiuru Hotel         |
| 110. | Samuel Mwangi     | Kachora                |
| 111. | Joseph Mumba      | Kiricuu                |


|      | Name                | Organisation                   |
|------|---------------------|--------------------------------|
| 112. | Joshua Kobia        |                                |
| 113. | Henry Kaberia       | Malaibua                       |
| 114. | Silas Ngumi         | Minbu                          |
| 115. | Isaya Meeme         | Mukaricia                      |
| 116. | Bonface Katheru     | Mutuati                        |
| 117. | Flora Mukokinyam    | Mutuati                        |
| 118. | Isaya Kinyua        | Mutuati                        |
| 119. | John K. Mweti       | Mutuati                        |
| 120. | Samuel Kobia        | Mutuati                        |
| 121. | Joseph Kalunge      | Mutuati                        |
| 122. | Silas Mungerica     | Mutuati                        |
| 123. | Dinda Gallegalo     |                                |
| 124. | Ibrahim Mohammed    |                                |
| 125. | Japhee Murwau       | Nurse                          |
| 126. | Beatrice Joshua     | Pastoralist                    |
| 127. | Esther Karambu      | Pastoralist                    |
| 128. | Flora Kathomi       | Pastoralist                    |
| 129. | Kaario Elizabeth    | Pastoralist                    |
| 130. | M'kaibuala M'kirima | Pastoralist                    |
| 131. | Sarah Halake        | Pastoralist                    |
| 132. | Eric Mwenda         | Peasant                        |
| 133. | Julius Meeme        | Peasant                        |
| 134. | Susan Kawivia       | Peasant                        |
| 135. | Simon M. Maore      | Retired senior assistant chief |
| 136. | Stanley Nkuja       | Senior Area Muthati            |
| 137. | David Ntoryai       | Teacher                        |
| 138. | Joakim Baithai      | Teacher                        |
| 139. | Rachel Munga        | Teacher                        |

|      | Name                   | Organisation |
|------|------------------------|--------------|
| 140. | Abdi Roba              |              |
| 141. | Abdullahi Kadubo       |              |
| 142. | Amina Maveria          |              |
| 143. | Baba Roba              |              |
| 144. | Barwako Abkula         |              |
| 145. | Drobino M'achiuru      |              |
| 146. | Garo Ali               |              |
| 147. | Gerald Mwithali        |              |
| 148. | Hadija Ahmed Sharif    |              |
| 149. | Happi Hidi             |              |
| 150. | Hassan Abdi            |              |
| 151. | Henry Mutetha          |              |
| 152. | Hussein Abdi           |              |
| 153. | James ngolua           |              |
| 154. | Japhet Mururu          |              |
| 155. | Japhet Mutwiri         |              |
| 156. | Jeremiah Kirimi        |              |
| 157. | John Mabea             |              |
| 158. | John Mukiri            |              |
| 159. | Joseph Kamengu         |              |
| 160. | Julius Kaingami Kaibua |              |
| 161. | Julius Koome           |              |
| 162. | Kadubo Diba            |              |
| 163. | Kanchoro Diba          |              |
| 164. | Lawrence Maore         |              |
| 165. | Mohamed Hillow         |              |
| 166. | Mohamed Suleiman       |              |
| 167. | Moses Mwithali         |              |

|      | Name            | Organisation |
|------|-----------------|--------------|
| 168. | Mustafa Mohamed |              |
| 169. | Pal Nkunja      |              |
| 170. | Patek Murithi   |              |
| 171. | Regina Mukomana |              |
| 172. | Rukia Dulacha   |              |
| 173. | Rukia Gollo     |              |
| 174. | Stephanie Muema |              |
| 175. | Tabitha Joshua  |              |
| 176. | Tunu Sora       |              |
| 177. | Uliamu Muathui  |              |
| 178. | Peter Muriungi  |              |
| 179. | Makayo Sukuja   |              |
| 180. | Musa Joshua     |              |
| 181. | Silas Wario     |              |

**APPENDIX B**

# Presentation



# The Proposed Lokichar to Lamu Crude Oil Pipeline Project (LLCOP)

STAKEHOLDER CONSULTATION COUNTY LEVEL UPDATE WORKSHOP


October 2018

1

## WELCOME AND INTRODUCTION

Welcome

Introductions




2

## AGENDA

### BASELINE STUDY MEETING: LOKICHAR TO LAMU CRUDE OIL PIPELINE PROJECT


1. Purpose of Meeting
2. Project Team
3. Project Background
4. Project Description
  - 4.1 Overview
  - 4.2 Route
  - 4.3 Technical Aspects
5. ESIA Process
  - 5.1 ESIA Process
  - 5.2 ESIA Focus
6. Consultation Process
7. Discussions
8. Way forward
9. Closure



3

## 1. PURPOSE OF MEETING

- Introduce the Proposed Lokichar to Lamu Crude Oil Pipeline Project and delivery teams.
- Provide an overview of proposed ESIA approach.
- Discuss the proposed project.
- Identify issues, comments and responses regarding the proposed project and associated approach.
- Indicate what will happen with the information.
- Indicate how stakeholders can participate in the future.




4

## 2. PROJECT TEAM


### 2.1 LAPSSET

The lead Government of Kenya organisation and leasor of land to the Pipeline.





### 2.2 PPMT

The Pipeline Project Management Team – consisting of the Governed of Kenya, Tullow Oil plc, Africa Oil Corporation and Total Oil.



### 2.3 ESIA CONSULTANT

Golder Associates, an independent ESIA consultant selected by GoK-led tender process. ESF Consultants, a Kenya based environmental management consultant is the in country Kenyan component.

5

## 3. PROJECT BACKGROUND

### 3.1 PROJECT NAME

Proposed Lokichar to Lamu Crude Oil Pipeline (LLCOP)



### 3.2 BACKGROUND

- Pipeline is Part of LAPSSET
- Part of vision 2030
- Source: Kenya Ministry of Transport
- Key components

Lamu port, highways, oil pipelines, railway international airports, resort cities, High Grand Falls dam.

### 3.3 ADDITIONAL COMPONENTS

Electricity transmission, fiber optics, water supply.

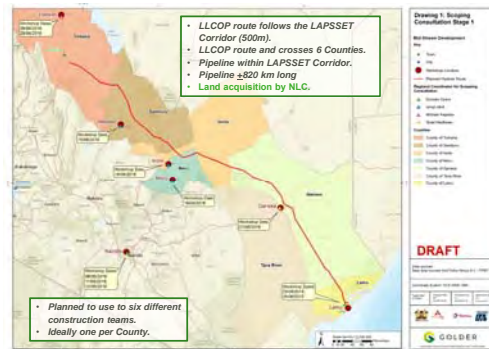
6

### 4.1 PROJECT DESCRIPTION: OVERVIEW

- The proposed Lokichar to Lamu Pipeline project is an onshore pipeline development from oil an field in Lokichar to a marine export facility in Lamu.
- The purpose of the project is to provide transportation, storage and export of the heavy and waxy crude oil.
- The project will link the Upstream oil fields (being permitted separately) with international markets.
- Construction time is anticipated to be approximately 24 months.
- The production life of the project is expected to be 30 years.
- Partners:
  - Government of Kenya.
  - Tullow Kenya B.V.
  - Africa Oil Turkana Ltd.
  - TOTAL.
- Size of stations along the way approximately 150m X 150m.

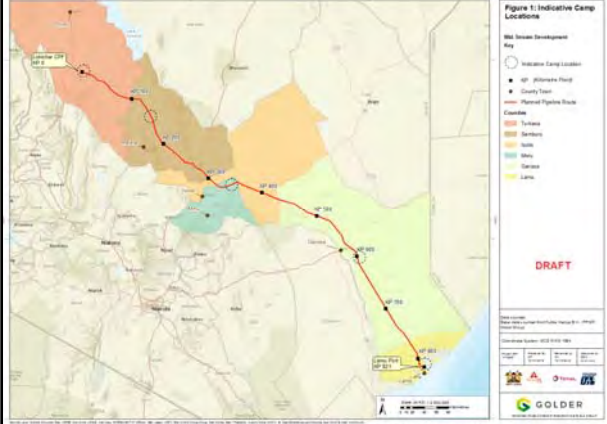
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### 4.2 PROJECT DESCRIPTION: ROUTE



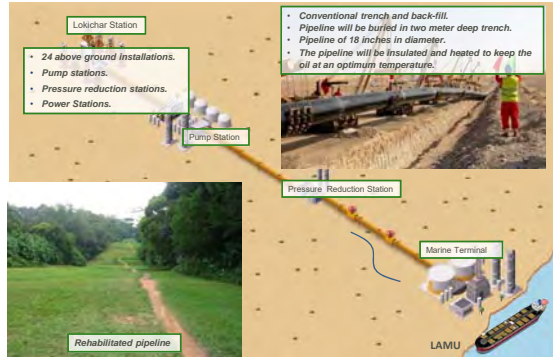
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### INDICATIVE CONSTRUCTION CAMP LOCATIONS



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### 4.3 PROJECT DESCRIPTION: TECHNICAL



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### 5.1 ESIA PROCESS

Requires an Environmental and Social Impact Assessment (ESIA) [(Environment Management and Co-Ordination Act (1999).]

#### Scoping Phase

- Baseline data collection to serve as reference framework.
- Identify potential social and environmental impacts.
- Stakeholder engagement.

#### Project Report and ToR

- Setting out potential impacts to be considered.
- Stakeholder engagement.
- Proposed assessment method and approach and significance evaluation.

#### ESIA Phase

- Assess the positive and negative impacts of the LLCOP.
- Stakeholder engagement.
- Development of mitigation and management measures.

#### ESIA Report

Submitted to NEMA for review and decision.

#### Timeframe

March 2018 to May 2019.



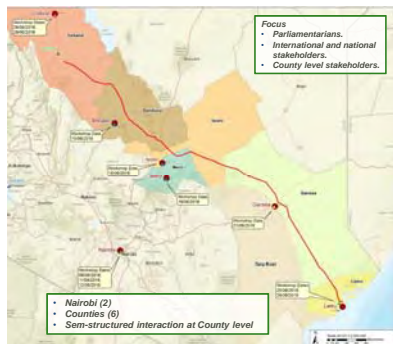
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### 5.2 ESIA FOCUS



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## 6.1 STAKEHOLDER ENGAGEMENT PROCESS: SCOPING



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## 6.2 STAKEHOLDER ENGAGEMENT FOCUS

- Legal Requirement.
- Opportunity for stakeholders to participate in ESIA process.
- To inform and consult
- Integrate and consider stakeholder viewpoints in the ESIA.
- All stakeholder contributions recorded and disclosed.
- Identify vulnerable groups, including women, the youth, indigenous peoples and disempowered people.
- Information in public domain.
- Provide feedback on results and information use.

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## 7. DISCUSSION

Facilitated by Mr James Kambo.

- Please provide your name and surname.
- Focus on LLCOP.
- Land related issues addressed by NLC.
- Complete comments and registration sheet.

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## 7. WAY FORWARD

- Event timelines.
- Future consultation.
- Availability of information.
- Record Key issues for each meeting.
- Project deliverables.
- ESIA process continuation.

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# Closure

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