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ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN

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Key Figures

% 1,443km crude oil export pipeline



export flow rate barrels per day at plateau production

<u>\$1</u> Over 60% increase in FDI of Uganda & Tanzania during the construction phase

> 3.5 Billion USD investment

Over 500,000

tonnes of imported equipment

This Environment and Social Management Plan (ESMP) outlines the key processes implemented by EACOP to manage defined environmental, social, health, safety and security (collectively HSE) aspects and implement the commitments identified in the Environmental Social Impact Assessment (ESIA). The ESMP describes how these processes are organised into the EACOP Integrated Management System (EIMS) and includes the roles and responsibilities of EACOP as an organisation and of contractors who will undertake the construction.

environmental This social and management plan (ESMP) demonstrates how the significant aspects identified in the East African Crude Oil Pipeline (EACOP) ESIAs are to be mitigated, managed and/or controlled by the company and its contractors.

Introduction

The EACOP Project

The EACOP Project is being developed to transport crude oil from the production fields near Kabaale, Uganda for export from a Load-out facility located on the Chongoleani Peninsula located north of Tanga City, Tanzania.



Figure 1: EACOP Route



This high-level project description serves to provide standalone information on the EACOP Project in its entirety (Uganda and Tanzania). The project description is presented in two parts; a land-based component and a marine component. Detailed project description including country-specific requirements is presented in the ESIA for each country (Uganda and Tanzania).

Land-based Components

The land component of the EACOP System comprises the crude oil export system and the marine storage terminal (MST) as illustrated in Figure 2: EACOP System Components below.



Figure 2: EACOP System Components

The key land-based project components as indicated in Figure 3: Typical EACOP Pipeline Cross-section include:

- Export pipeline: 1443 km of insulated, electric heat-traced, 24-inch pipeline originating in Hoima district in Uganda ending at the export Marine Storage Terminal (MST) in Chongoleani, Tanga district.
- Above Ground Installations (AGI), including Pumping Stations (PS), Pressure Reduction Stations (PRS), electric substations and Main-Line Block Valves (MLBV).



Figure 3: Typical EACOP Pipeline Cross-Section

The AGI comprises:

- 6 pumping stations
- 61 stand-alone MLBV stations in the operational right of way (RoW)
- 3 stand-alone electric substations in the operational RoW
- · 15 MLBV stations co-located with electric substations in the operational RoW
- · 9 electric sub-stations combined with PS and the MST
- · 2 PRS and 1 PR system within the MST
- 1 MST (with approx. 2.0 MMbbls capacity)
- 53.8 km of new or upgraded permanent access roads to PSs, PRSs and the MST
- · 68.3 km of new or upgraded construction facility access roads (2.4 km new access roads, 5.9 km of upgrades to existing roads)
- 1 pipe coating facility
- 16 main camps and pipe yards (MCPY).
- Marine Storage Terminal (MST): the pipeline terminates at the MST where crude oil is stored before transfer to tankers at the Load-out facility (LOF). The MST design is based on a minimum overall storage capacity of 2 million barrels of crude oil. This is achieved by using four 500,000 barrel, steel storage tanks. The MST is located adjacent to the coast as indicated in Figure 4: Marine Storage Terminal location.



Figure 4: Marine Storage Terminal Location

Construction facilities required to support pipeline construction including:

- and store line pipe before distribution along the RoW.
- 1 coating facility (CF) and a camp for insulation of the pipes
- access roads

Land requirements: The project will require approximately 5,200 hectares to support the construction phase followed by operation of the EACOP System.

Marine-based Components



• A trestle that extends approximately 1,900m from shore to a water depth deep enough to accommodate tankers at the loading platform.

The marine components of EACOP comprises:

- Loading platform including marine loading arms for the export operation.
- Navigation channels elements (outer and inner channels/northern and southern channels).

The selected proposed layout of the marine component is indicated in Figure 5: Trestle and Platform Loading Layout.

• 16 Main camp and pipe yard (MCPY) to be constructed along the pipeline corridor to accommodate workers

Figure 5: Trestle and Loading Platform Layout



Requirements and Standards

EACOP complies with national regulatory requirements and conforms to international standards applicable to the development, construction, operation and decommissioning of EACOP activities that have potential environmental and social impacts, beneficial and adverse. Detailed description on applicability and project compliance measure(s) to the pertinent country specific and international requirements has been presented in the EACOP Uganda ESIA Section 4 and EACOP Tanzania ESIA Volume 1 Section 4 for Uganda and Tanzania respectively.

Applicable international requirements are presented in detail in the EACOP Uganda ESIA Section 4.4 and EACOP Tanzania ESIA Volume 1 Section 4.4.

The following key standards have been adopted by EACOP:

- agencies
- Table 4.4.2.1
- Equator Principles IV (EPs) for assessment and management of environmental and social risk in project
- IFC/World Bank Group Environmental, Health and Safety (EHS) Guidelines
- Organisation for Economic Co-operation and Development (OECD) Common Approaches Recommendation other International Good Practice Guidance including (but not limited to):
 - World Health Organization (WHO) guidelines on air guality, noise and drinking water
 - International Petroleum Industry Environmental Conservation Association (IPIECA) guidelines
 - International Association for Impact Assessment (IAIA)
 - International Labour Organisation (ILO)
 - International Association of Oil and Gas producers (OGP)
 - International Maritime Organization, 2011
 - United Nations Environment Programme (UNEP) guidelines
 - United Nations Women's Empowerment Principles, 2010
 - Nile River Basin Action Plan and Panel of Experts (POE), 1995
 - Extractive Industries Transparency Initiative (EITI), 2007
 - United States National Marine Fisheries Service Technical Guidance
 - International Convention for the Control and Management of Ships' Ballast Water and Sediments (BWM) (2004).

Further, the pipeline technical design has been primarily based on the following industry standards (EACOP Uganda ESIA Section 2.2.2 and EACOP Tanzania ESIA Volume 1 Section 2.2.2):

- ASME B31.4 2016 "Pipeline Transportation Systems for Liquids and Slurries"
- ASME B31.3 Gas Transmission and Distribution Piping Systems (US/International Standard).

Intergovernmental Agreement and Host Government Agreement

Considering the transboundary nature of the pipeline, the EACOP Project is subject to the regimes of statutory control regulated by various bodies. In recognition of the transboundary nature of EACOP's activities, the

International conventions and agreements that Uganda and or Tanzania have signed, acceded or ratified and are implemented under the authority of specific Acts, policies, regulations and government departments or

IFC Standards as listed in the listed in EACOP Uganda ESIA Table 4.4.2.1 and EACOP Tanzania ESIA Volume 1

Governments of Uganda and Tanzania have signed an Inter-Governmental Agreement (IGA) and EACOP has signed Host Government Agreements (HGAs) with both Governments of Uganda and Tanzania establishing a contractual relationship between EACOP and each State. The IGA and HGA's require the project to be developed in accordance to Environmental, Health, Safety and Security (EHSS) and Human Rights standards at the national and international level. The scope of the HGAs is wide and addresses applicable HSE standards and other requirements. This will streamline and reinforce range key commitments for the development, construction and operation of the EACOP Project.

Permits, Licenses, Approvals and Authorisations

Several permits, licences, approvals, or authorisations must be acquired before a project or specific activities begin. The EACOP Uganda ESIA Section 4 Table 4.3-1 and EACOP Tanzania ESIA Volume 1 Section 4 Table 4.2-1 and Table 4.3-2 provides an overview of the permits, licences and approvals that are or may be required by EACOP. EACOP and its Contractors are each responsible for obtaining the permits required for construction and operational activities. EACOP maintains Permit Registers that outline the various permits required and identifies who is responsible for obtaining them.

EACOP and its Contractors (within their defined range of responsibilities) identify and implement controls suitable for any new or forthcoming legislation applicable to their activities. Information regarding new permitting requirements is communicated to the Contractors as appropriate hence the Register is periodically amended to incorporate new changes.





EACOP Environmental and Social Impact Assessments

Subject to the regulatory requirements of Uganda and Tanzania and requirements of international lending institutions, separate environmental and social impact assessments (ESIAs) have been completed and ESIA certificates issued by environmental regulatory bodies in Uganda and Tanzania.

The ESIAs identify, describe and assess the likely interactions of the EACOP Project in Uganda and Tanzania with environmental and socio-economic receptors termed as the "valued environmental and social components" (VECs). While potential social and human rights risks were assessed principally through the ESIAs and Human Rights Impact Assessment (HRIA), additional complementary studies that add breadth and depth to the assessments have been conducted. Road safety scoping and Project Induced in-migration are two examples.

Subsequently, appropriate environmental and social management and mitigation measures have been identified and compiled into commitments registers available on the EACOP website and management and monitoring registers. These are used to integrate environmental, social and cultural issues in the project implementation and guide the decision-making process throughout all phases.

Requirements defined within the Ugandan and Tanzanian ESIA certificates form mandatory requirements for the EACOP Project.



Eacop Project Environmental and Social Management



To support achievement of the commitments defined in the ESIAs, a suite of aspect specific Detailed Management Plans (DMPs) and Contractor Control Plans (CCPs) have been developed. The DMPs and CCPs define EACOP's minimum environment and social requirements. The DMPs and the CCPs are part of the EACOP Integrated Management System (EIMS)s.

Figure 6: Integrated Management System – Key Processes identifies the Projects key environmental and social controls.

Details about the process used to identify EACOP's environment and social aspects can be found in the ESIAs available on the EACOP website.



EACOP Aspects, Impact and Commitments

EACOP's objective is to design, construct and make ready for operations a pipeline and its aboveground installations. EACOP drives the package contractors and sub-contractors under its control to achieve the EACOP objective of Zero Harm - including zero harm to people, the environment including EACOP's commitment to no net biodiversity loss / net biodiversity gain, the communities in which we work, EACOP's assets and corporate reputation. This is done in part through the implementation of effective environment & social processes supported by competent personnel and a pro-active culture.

The environmental and social aspects and impacts of the pipeline project were identified during preparation of the ESIAs and supported by comprehensive stakeholder engagement. This included identification and consideration of vulnerable people and groups; and incorporated the results of a human rights impact assessment (HRIA).

Mitigation measures appropriate to the level of risk were developed in accordance with the mitigation hierarchy (which prioritises in order avoidance, reduction, mitigation and compensation/off-set). These mitigation measures have been incorporated into the ESIAs and transferred into commitments registers for each country. The commitments registers (EACOP Uganda ESIA Appendix E4 and EACOP Tanzania ESIA Volume 1 Appendix E4) list the management plans and their associated mitigation measures.

The commitments are further organised in Appendix J of the EACOP Uganda ESIA, and in the Appendix K of the EACOP Tanzania ESIA Volume 1 which propose monitoring parameters, associated performance indicators and targets that EACOP Project will employ to steer environment and social performance toward the desired outcomes and to meet EACOP Project commitments for continual improvement.

Key Components of the EIMS

Key components of the EIMS include:

- Environmental and Social Management Plan (ESMP)
- Detailed Management Plans (DMPs), which describe the processes EACOP will follow to achieve EACOP's commitments with regards to environmental and social management
- Contractor Control Plans (CCPs), which:
 - · details the activities the Contractor is required to complete
 - · provide the information Contractors need to translate project commitments, that have been developed during the ESIAs and contracting processes into contractor actions
 - serve as a key tool by which EACOP can follow up and check the contractor plans and procedures that specify how the activities described in the CCPs and other contractual documents will be carried out to ensure fulfilment of project commitments

Project HSE Management Plan, which:

- · provides detailed roles and responsibilities of both the EACOP Project and the Contractor
- provides specific direction to the Contractors as to the minimum requirements necessary to be reflected in the Contractor's management systems and practices.

DMPs and CCPs

The DMPs and CCPs set the minimum requirements necessary to achieve the commitments made by EACOP and where appropriate, provide additional information on how best to accomplish.

The DMPs define EACOP's process to meet policy, regulatory requirements, performance monitoring, corrective action and continual improvement. This includes specific requirements to conduct oversight of Contractor performance against EACOP's commitments.

The CCPs define the minimum requirements for EACOP's contractors related E&S aspects, and collectively (all the CCPs) form the criteria for EACOP's contractor oversight program.

Additional management plans will be developed as the project evolves including, but not limited to:

- Location-specific biodiversity management plans
- Location-specific plans for erosion and sediment control and reinstatement
- Occupational health safety and security plans •

The DMPs, CCPs and applicable management plans are reviewed regularly to ensure continued adequacy and are updated accordingly.

Table 2: E&S Plans and Content

Document Topic (Type)	Content ¹
Pollution Prevention (DMP, CCP)	 Defines the approach requirements for: Good international in to attenuate impacts sources of pollution Management of vess Selection, safe mana Handling and dispose potential project inc Watercourse crossin handling and storat points and management of was Control of suspender release control, scouter Planned maintenance Prevention of pollur requirements of the store of the

to prevent pollution and will specify minimum

industry practice that will be used in project activities s resulting from noise, light, dust, nuisances and other

- ssels' bilge water and ballast water
- agement, use and disposal of chemicals
- sal of contaminated soil (from chance finds as well as cidents)

ings addressing issues such as fuel and chemical age, surface run-off into watercourses at crossing ment of potential project-related sediment loading of

sh water from vehicles and concrete delivery trucks

- led sediment and sedimentation including sediment our management and demobilisation surveys
- ce of vessels, facilities and equipment.
- ution from vessels will be in accordance with the marine pollution (marpol) convention.

Table 2: E&S Plans and Content

Document Topic (Type)	Content ¹
Biodiversity Management (CCP)	Defines the approach to reduce impacts on terrestrial and marine biodiversity and addresses:
	 pre-construction surveys and pre-clearance surveys
	 construction biodiversity considerations, such as signage, marine mammal observation, reducing habitat disturbance, habitat and species protection and an Alien Invasive Species plan
	 mitigation measures to be applied immediately before the onset of construction, such as translocation plan for flora and fauna and immediate pre-clearance checks.
Biodiversity Action Plans (DMP)	Biodiversity Action Plan contains further enhancement and conservation measures for specific areas where the need arises. This plan consists of marine and terrestrial components and include requirements for monitoring and evaluation and off-setting.
Procurement and Supply Chain Management (DMP)	Defines the approach to supply chain management including environmental, social and quality considerations, maximise the purchase of local goods and services, and will address:
	 procurement and supply standards
	local content policy for local business and community development
	 third-party vendors of services, materials and products
	 third-party aggregate extraction and batching facilities
	capacity development
	 ring-fencing contracts workers' rights compliance
Waste Management	Defines the approach to reduce potential waste related impacts and address:
(DMP, CCP)	 development of a waste management hierarchy
	 identification and classification of waste streams
	 requirements for waste collection, segregation, treatment, storage and transportation
	final disposal options
	 waste management documentation to demonstrate compliance with duty of care.
	Waste management on-board vessels will be in accordance with the requirements of the MARPOL convention.

¹ Content of the plan will be tailored to the audience and relevant activity. e.g. the marine CCP will only include requirements relev	ant to
marine activities and will exclude those relevant to terrestrial activities only.	

Document Topic (Type)	Content
Natural Resource Management (CCP)	 Defines the approach to aggregates manager water management resources energy efficiency timber management
Soil Management (CCP)	 Defines the approach to address: construction planning, including temporary so Management of surp disturbance of contains temporary erosion contains
Cultural Heritage (CCP)	 Defines the approach to potential impacts on tan pre-construction sur known archaeologic chance finds proced interface meetings.
Social Management (DMP)	 Defines separately for procedures to be follow construction phase of th performance. The technical scope Cultural Heritage Stakeholder eng Community heal Labour and word chain, except fo does include ind such as control community. Project Induced Temporary land a The Social Managem identify, assess intangible cultur protect community ensure EACOP rewith legal require

to manage natural resource use and address: gement (sourcing, storage, use, re-use and disposal) ent including potable water and sharing community

ent.

to soil management and temporary erosion control and

- ning surveys and assessments
- luding topsoil stripping and segregation of soil types soil storage
- urplus excavated materials
- ntaminated land
- control.

to the identification, assessment and mitigation of tangible and intangible cultural heritage and address:

- surveys and assessments avoidance or preservation of gical or cultural heritage assets
- cedure for tangible cultural heritage

for both Uganda and Tanzania, the approach and lowed by EACOP to manage social impacts during the f the Project and to manage both EACOP and Contractor

- pe of the SMP includes:
- age Management
- ngagement.
- ealth, safety and security (CHSS).

orking conditions, including within the Project supply for Occupational Health and Safety (OHS). Coverage incidental overlap with community health and safety, rol of disease vectors where these could impact the

- ed in-Migration (PIIM)
- nd access.
- ement Plan describes EACOP led actions that:
- ss and mitigate potential impacts on tangible and tural heritage
- nunity health, safety and security

recruitment practices and working conditions comply with legal requirements and project standards

Document Topic (Type)	Content
	 prevent and manage PIIM and associated impacts
	 support and manage Contractor temporary land access requirements ensure training of EACOP staff on the Social Management Plan requirements
	 Social Management Plans also outline how Contractor monitoring and evaluation will apply a human rights lens as well as the key elements of the EACOP approach to engaging with, avoiding and mitigating impacts upon vulnerable ethnic groups that may self-identify as indigenous peoples.
Reinstatement (DMP, CCP)	Defines the approach to manage reinstatement incorporating permanent erosion/scour control and bio-restoration, and will address:
	permanent erosion/scour control
	bio-restoration, revegetation and reseeding
	• site reinstatement, including decommissioning of temporary work sites, structures and facilities
	• watercourse and wetland crossings reinstatement including vegetation removal and bank stabilisation
	• the procedure to identify where location-specific reinstatement plans are required as per the findings of the ESIA
	 post-construction survey's to document site condition on construction completion
Stakeholder Engagement (DMP, CCP)	Defines processes developed to ensure thorough and effective stakeholder engagement (see section 7).
Grievance Management Procedure (DMP)	The community grievance management procedure provides a proportionate and context-specific process for treating complainants with dignity and seriousness, at no cost to Complainants. It provides confidentiality of the dialogue between parties and of individuals' identities where necessary, protects all parties from retaliation and builds trust as an integral component of broader stakeholder relations activities. It ensures proper documentation of grievances and any corrective actions taken.
	It defines how grievances will be:
	received and recorded
	• assigned
	acknowledged
	investigated
	responded to
	resolved and identifies the appeal and escalation processes.

Document Topic (Type)	Content
Worker Grievance Mechanism (DMP)	The worker grievance n community grievance r
	EACOP worker grievant a direct employment con has a clear employment conditions and treatm workers that are part of manpower companies. for the purpose of EACO employees of contract mechanism where they mechanism will not fun
Resettlement Action Plans (DMP)	 The following RAP deta and the nine EACOP Tail a summary of the left the individuals and economic displace impacts associated the way that competent eligibility criteria and and institutions the process used to levels of assistance measures to reinstate roles and responsibies the Project's approximate PAPs and other interes activities required compensation and
Labour Management (CCP)	Sets out the mitigation during construction of practices and working of standards. The Labour Managem requirements listed bel • comply with interr regulations concern human rights • recognise workers' collective bargainin • provide suitable wo • provide a mechan Organisation Mater

mechanism aims to achieve the same outcomes as the management procedure but focusing on workers.

nce mechanism applies automatically to workers with contract with EACOP i.e., those workers where EACOP nt relationship and complete control over the working nent of these workers. This will also include those of EACOP team but employed through personnel or s. EACOP will include these workers as Direct Workers OP grievance mechanism. All Project workers including ctors may lodge their grievance through the EACOP ey are concerned that CONTRACTOR worker grievance nction effectively in their case.

tails below are found in the EACOP Uganda RAP Final anzania RAPs:

legal framework;

- d households who will experience physical and / or sement, and the communities who will experience d with the land acquisition process;
- ensation rates for lost assets were determined;
- nd the entitlements for affected individuals, households
- o identify affected vulnerable individuals and groups; e for resettlement of affected households
- ate livelihoods of affected persons and households;
- bilities to undertake and implement the RAP;
- bach to stakeholder engagement and consultation with erested parties,
- d to implement, and monitor land acquisition, livelihood restoration commitments.

n measures to protect labour and working conditions of the EACOP Project and ensures that recruitment conditions comply with legal requirements and project

- nent plan requires that the contractor respects the elow:
- national labour standards, national labour laws and rning transparency, accountability, anticorruption and
- s' right to trade union representations and organise ng
- orking conditions including rest facilities and breaks
- nism for compliance with the International Labour rnity Protection Convention (2000)

Document Topic (Type)	Content
	 respect workers' rights to privacy including data protection requirements. Include:
	 recruitment policies and process including guidance for local recruitment
	 provision for local content, development of local enterprise and capacity development
	 location and operation of recruitment centres labour contracts, including workers' rights and conduct, camp rules and workers' grievance procedure disciplinary procedures
	 a retrenchment plan to manage retrenchment at the end of the construction phase
	 workforce environmental and social training and awareness programmes, and local skills development
	 training to ensure workforce have the skills to perform their responsibilities.
Land Management (CCP)	The Land Management CCP describes the approach and procedures to be followed by CONTRACTOR for Temporary Land Access during the construction phase of the Project covering additional temporary land requests that fall outside the already anticipated EACOP footprint.
	 requires the CONTRACTOR to ensure that Temporary Land Access does not result in Permanent or temporary physical displacement, permanent or temporary loss or relocation of business structures, permanent or temporary loss or relocation of community or institutional structures / facilities, permanent or temporary loss or relocation of other cultural assets, removal of trees or entry into Reserved Land including Forest Reserves, Game Reserves and Game Controlled Areas etc.
	• it defines the approach to eligibility for payment of rental and damages, the pre-use assessment, preservation of land condition, post assessment of damages and the stakeholder engagement requirements including for vulnerable groups.
Security and Voluntary Principles on Security and	Define the approach in place to provide security for the Project. The plans will:
Human Rights (VPSHR) (DMPs)	 include requirements for both EACOP Project security personnel and third-party security providers
	• describe the measures in place to ensure security measures for the Project to respect human rights and fundamental freedoms as per the Voluntary Principles on Security and Human Rights (VPSHR).

Document Topic (Type)	Content
Community Health, Safety and Security (DMP, CCP)	Defines the minimum activities that can hav communities nearest to • community security • traffic and transport • Construction activiti • Trench and excavati • Site access control • Occupational health • PIIM prevention and • Stakeholder engage • Training requiremen
Occupational Health, Safety and Security (OHSS) (DMP, CCP)	 Defines the managements security and will addres camp / workforce here drug and alcohol port camp /shipboard far provision workforce fitness for plan, vaccine prevent plan pest control and approver with wildlife.
Transport and Road Safety (DMP, CCP)	 Guides project logistics transportation activities definition of project local road upgrades notification of over-s journey managements suitable diversions r safety-awareness ed signage of hazards.

requirements for contractors engaged in EACOP ve an impact on safety, security and/or health in o these activities. It sets out requirements for:
У
t management
ties and machinery
tion hazard management
h management
d management
ement related to Community health safety and security
nts
nent of workforce occupational health, safety and ss:
nealth and wellbeing
olicy
facilities, including health clinics and potable water
or work, sexual and communicable diseases prevention entable diseases management plan and vector control
opropriate measures to reduce workforce interactions
and support community and driver read actaby during

s and support community and driver road safety during s and will address:

- t transport routes
- s
- -sized loads
- nent including convoys and scheduling of traffic

routes during temporary closure of roads education for local communities

Document Topic (Type)	Content
Vessel Management (CCP)	Guide logistics and support navigation safety related to transportation and construction activities and will address:definition of navigation lanes
	 notification to mariners scheduling of vessel movements vessel anchoring and lighting signage of hazards.
Emergency Preparedness and Response (DMP, Contractor Bridging Documents)	 Defines the approach to emergency preparedness and response and will address: emergency risk analysis, emergency preparedness and response planning and the definition of the relationships with contractors' emergency response plans incident management, including spill response planning, location of emergency response equipment and personal protective equipment (PPE), material recovery and remediation techniques the type and content of emergency response exercises and the minimum personnel participation in these exercises the location of emergency response equipment; minimum equipment and PPE at these locations roles and responsibilities and specify communication and notification requirements (according to tier 1, 2,3 thresholds). Emergency preparedness and response on board vessels will be in accordance with the requirements of the MARPOL convention where applicable.
Environmental and Social Mon- itoring and Reporting (DMP, CCP)	 Defines the approach to ensure that: monitoring, inspections and audits are undertaken in a systematic way the implementation of the environmental and social mitigation measures is monitored data on environmental and social conformance is gathered investigation of non-conforming monitoring results internal and external reporting requirements are met. The monitoring approach for potential impacts is described in the EACOP Uganda ESIA Appendix J and EACOP Tanzania ESIA Volume 1 Appendix K ESMOP, with monitoring parameter(s), target criteria and monitoring frequency. The plan address: a monitoring programme identifying monitoring locations (based on sensitive valued environmental and social components and receptors) and monitoring methodologies environmental and social inspections and audit programme non-compliance management monitoring results tracking system responsibilities for reporting, content, level of detail and format of reports and reporting deadlines internal and external notifications and reporting.

Document Topic (Type)	Content
Audit and Assurance (DMP)	 Details the activities EA social performance is a planning requirem tours / visits includ defining sources for defining auditor transment report preparation management review corrective action management
Contractor Oversight Plan (DMP)	Details the activities E Contractors' operations verification of contract checks, equipment spee • verification of contract checks, equipment • control and validati • review of Contract • inspections and aud site practices • joint management f • setting and review targets for example grievances respond • regular reporting an • review of incidents • corrective actions f
Decommissioning (when needed) (DMP)	 Defines the decommiss of the pipeline and I: identify applicable I process define a schedule de process, including outline the approva define the environr

- ACOP will undertake to confirm that environmental and as per expectations and will include:
- nents for audits, inspections and safety observation ding frequency, responsibility and scope
- or audit criteria
- aining and competency requirements

w

- nanagement.
- EACOP Project will undertake to provide oversight of ns and will include:
- ctor mobilisation requirements for example medical ecifications and certification
- ractor mobilisation requirements for example medical specifications and certification
- tion
- cors' management systems and practices
- idits including audits of Contractor documentation and
- tours & regular site visits
- of performance against defined environment & social le on training, emergency response drills completed, ded to within the timeframe specified
- nd progress meetings
- and near misses
- follow up.

sioning of operation infrastructure at the end of the life

- laws and standards that will guide the decommissioning
- luring the pipeline life for developing a decommissioning financing arrangements
- als process for decommissioning
- mental and social evaluation process.





Contractor Environmental and Social Management

Contractors' environment & social management processes and capabilities are evaluated as part of the contractor selection process to ensure that they can meet the defined minimum requirements of the project.

Tender and contract documents contain specific environment & social clauses and requirements that enable Contractors to understand the level of management required to conduct the scope of work. These clauses consider EACOP Project's environment and social commitments and are amended as these commitments evolve. These require Contractors to have a management systems and practices in place appropriate to undertake their contracted activities.

The EIMS requires that all contractor implementation plans are reviewed and approved by EACOP E&S departments before their implementation on site. Regular communication between EACOP and contractors is critical to the success of the project and will be achieved through a variety of measures including meetings (including regular progress meetings), joint management tours, contractor reporting including progress reports, monitoring reports, reports of audits and inspections, and stakeholder engagement and grievance reports.

Contractors will operate an open book system with EACOP regarding all project documentation and communications.



Communication and Engagement

Stakeholder Engagement

Meaningful engagement with stakeholders, and the associated feedback, underpins the execution of the Environment and Social Management Plan, providing an essential input to the management of risk during Project planning and execution.

Stakeholder Engagement is guided by ten principles described in the stakeholder engagement plan (SEP) for each country among them being open and transparent, based on listening and dialogue, being impact focused, safe and effective.

The SEPs:

- identify stakeholders, prioritizes engagement activities, and provides the framework for the engagement process;
- provides a structured plan for sharing information and consulting with each stakeholder group, in accordance with Project commitments.
- describes resources and responsibilities for implementing stakeholder engagement activities
- describes how stakeholder engagement activities will be incorporated into the Project's management system, including monitoring and reporting requirements.

The SEP identifies vulnerable groups that may require specific considerations and stakeholder engagement methods and approaches to ensure they are reached and able to meaningfully participate. The Vulnerable Ethnic Groups framework document describes the specify approach to engagement with vulnerable ethnic groups that may self-identify as indigenous peoples.

The SEPs are complemented by specific stakeholder engagement requirements during the land acquisition process including resettlement implementation as set out in the ten project Resettlement Actions Plans.

The Project engages with civil society including NGOs proactively on a regular basis in one to one meetings with certain organizations and through town hall type meetings held on a quarterly basis. In addition, EACOP develops disclosure materials for environment and social aspects and distributes throughout affected communities on notice boards, during townhall meetings and one-to-one NGO meetings. These materials include project leaflets, non-technical summary of ESIAs, RAP leaflets and posters, Grievance mechanism leaflets, animated films, website and radio announcements in multiple languages in Uganda and Tanzania.

The Project has established a nonjudicial community grievance procedure to ensure any complaint raised by a stakeholder will be registered and managed to achieve resolution. The grievance procedure aligns with the United Nations Guiding Principles on Business and Human Rights effectiveness criteria. The grievance procedure is the process available to stakeholders for lodging a grievance during pre-construction, construction and project operations. The grievance procedure is readily accessible to all stakeholders at no cost and without retribution and does not impede access to judicial or administrative remedies. The project's grievance procedure has been presented to stakeholders during each project phase and is managed by the EACOP stakeholder engagement team.

Grievance Mechanism

There are several methods to report grievances to ensure the process is inclusive and culturally appropriate. Figure 8: outlines the key steps of the grievance management procedure that EACOP has developed for the project.



Training

EACOP implements a training & development plan to ensure that required competencies are available and appropriate to the defined risks. Both EACOP and Contractors implement environmental and social training programmes that include a system for assessing the competence and training needs of all personnel.

The training programme is updated in accordance with changes made in scope, incident statistics and/or regulatory requirements.

An Information Education and Communication (IEC) programme is developed for workers addressing social conduct and including topics such as: gender-based violence, drug and alcohol misuse.

Capacity Building

Capacity building includes the process of equipping individuals with the understanding, skills and access to information, knowledge and training to enable them to perform effectively. It is recognised that some project staff may not have experience in managing environmental and social impacts in the manner required by the project. To help bridge the gap, the Labour Management Plan, the procurement and supply chain management plan and local content plan will identify priorities for capacity development and measures to increase the capacity of the project workforce, contractors and subcontractors.

Monitoring, Oversight and Continual Improvement

Environmental and Social Monitoring and Reporting

The development of the Project ESIAs resulted in the identification of mitigation measures that will be implemented to ameliorate Project environmental and social impacts to a level that is not considered significant. The implementation of these measures and the effectiveness in achieving a reduction of impacts will be monitored, evaluated and reported.

The purpose of this section is to outline the key monitoring requirements developed during the ESIA process to monitor the environmental and social performance of the project. These requirements will be incorporated into the Environmental and Social Monitoring and Reporting Plan.

The overall objectives of the monitoring are to:

- Ensure regulatory requirements are met •
- Check that impacts do not exceed project standards
- Verify predictions made during the ESIA process
- Verify the implementation and effectiveness of mitigation measures •
- Provide early warning of potential environmental impacts
- social issues

Inform future operations and contribute to continuous improvement in management of environmental and

The of EACOP environmental and social monitoring activities will be conducted by EACOP E&S departments, its contractors pursuant to their contractual obligations to undertake inspections, monitoring and reporting. The following are four types of inspections, monitoring and reporting.

- Inspections: Inspections are planned and conducted on a regular basis to ensure that mitigation measures and EACOP commitments are properly implemented and maintained and specific management procedures are being followed
- VEC Monitoring: Monitoring of Valued Environmental Social Components is undertaken to evaluate the effectiveness of the mitigation measures against the prediction made in the ESIA
- Compliance Monitoring: Monitoring for compliance involves periodic or continuous sampling dependent on the specific regulatory requirements for the component being measured. This normally requires the acquisition of a sample for quantitative analysis and evaluated against regulatory criteria such as the measurement of air emission parameters, water chemistry parameters for discharge water, potable water.
- Auditing: Auditing can include either internal audits were EACOP conducts an audit to assess compliance to Project criteria or external audits often conducted by Government departments to assess compliance to regulatory conditions.

The frequency of inspections, monitoring, auditing and reporting is based on Project risks and regulatory requirements. The outputs will be used to provide early warning for asset/site management and allow EACOP to adjust mitigation measures to suit evolving conditions. These actions will also enable Contractors to demonstrate that mitigation measures and procedures are being followed and operations are conducted within compliance limits.

Monitoring Plan for Generic and Specific Mitigation Measures

Monitoring type and monitoring frequency is described in Appendix J of the Uganda ESIA and the Tanzania ESIA (Volumes 1 and Volume 2).

Performance Management

EACOP will implement an audit & assurance process aimed to confirm that EACOP and its contractors are living up to the commitments made during the execution of EACOP activities. This is described in the EACOP Audit and Assurance Plan, DMP and the Contractor Oversight Plan. During execution of the project the contractual requirements (for example the specifications of the CCPs, environmental and safety optimum requirements) will be implemented, controlled and self-verified (e.g. by contractor conducting their own inspections and audits of their processes) by the contractors. Performance of contractors is permanently evaluated and monitored by the EACOP Project management team (throughout the duration of the project, and appropriate corrective actions are taken when non-compliances are detected.

Non-Conformance Management

Where monitoring, audit or oversight activities identify non-compliances or non-conformities corrective action plans are prepared and tracked through to closure. The status of corrective actions are discussed during planned EACOP Project - Contractor progress meetings.

Performance Reporting

EACOP Project has developed a comprehensive reporting system which describes:

- Internal reporting of environmental and social performance including the outcome of compliance assurance activities and Contractors performance against KPIs
- External reporting to government relating to:
 - · permitting and licensing requirements, e.g., notification before starting an activity
 - · monitoring results in accordance with the terms and conditions of any licences or consents
 - annual environmental and social audits
 - · environmental and social incidents as required by legal requirements.





Management of Change

A management of change procedure has been developed to ensure that the impacts of any changes to the project as described in the ESIA are adequately assessed and appropriate management and mitigation activities identified, implemented and tracked through to closure. Examples of changes include changes to the project activities, project design, pipeline route, project footprint, technical specifications.

Appendix

Revision History

Revision	F	Reaso
0	F	irst l

Reference documents

Document Reference	Document Title
L0-PO-HSE-UT-0001	EACOP Health, Safety, Se
LO-MA-LEAD-UT-0001	EACOP Integrated Manag
L2-SD-HSE-0900	EACOP HSE Organisation
	EACOP Uganda ESIA
	EACOP Tanzania ESIA
TZ-MID-60-0120-200264	Permit Matrix - Tanzania
UG-MID-60-0120-200489	Permit Matrix - Uganda
PG-P15-00-PMGT- 000010	Management of Change

Definitions-Abbreviations

Abbreviation	Explanation	
Α		
AGI	Aboveground Installation	
AOI	Area of Influence	
ASME	American Society of Mechanical Engine	
ATS	Action Tracking System	
В		
BLAC	Biodiversity and Livelihood Advisory Co	
BSI	British Standards Institution	
BWM	International Convention for the Con Sediments	
C		
ССР	Contractor Control Plan	
CF	Coating Facility	

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Abbreviation	Explanation
CLOs	Community Liaison Officers
CPF	Central Production Facilities
CR	Company Representative
CRC	Community Relations Coordinator
CUL	CNOOC Uganda Limited
D	
DGM	Deputy General Manager
DMP	Detailed Management Plan
DSA	Designated Site Authority
E	
EACOP	East African Crude Oil Pipeline
EHT	Electrical Heat Tracing
EHS	Environmental, Health and Safety
EIMS	EACOP Integrated Management System
EITI	Extractive Industries Transparency Initiative
EMA	Environmental Management Act, No. 20, 2004 of Tanzania
EP	Equator Principles III (EPs) for assessment and management of environmental and social risk in project
EPCM	Engineer, Procure, Construct Manage
EPcmC	Engineer, Procure, Construct Manage Contractor
ERC	Emergency Response Centre
ERM	Emergency Response Manager
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
ESMoP	Environmental and Social Monitoring Plan
G	
GHG	Greenhouse Gas
GM	General Manager
н	
HAZID	Hazard Identification
HAZOP	Hazard and Operability
HGA	Host Government Agreement
HRIA	Human Rights Impact Assessment
HSE	Health, Safety, Security, Societal and Environment
HSE-MS	Health Safety and Environment Management System
I	
IAIA	International Association for Impact Assessment
IFC	International Finance Corporation
IGA	Inter-Governmental Agreement
ILO	International Labour Organisation
IMS	Integrated Management System
IPIECA	International Petroleum Industry Environmental Conservation Association
ISO	International Organization for Standardization
К	
KPIs	key performance indicators

Abbreviation	Explanation	
L		
LMP	Labour Management Plan	
LOF	Load-out Facility	
М		
MARPOL	International Convention for the Preven 1973, amended 1978	
MCPY	Main Camps and Pipe Yards	
MLBV	Mainline Block Valves	
MMbbls	Million Barrels	
MP	Management Plan	
MST	Marine Storage Terminal	
N		
NEMA	National Environment Management Aut	
NEMC	National Environment Management Cou	
NGO	Non-governmental Organisation	
0		
OECD	Organisation for Economic Co-operatio	
OHSAS	Occupational Health and Safety Assess	
OHSS	Occupational Health Safety and Securit	
OPG	International Association of Oil and Gas	
P		
PACs	Project Affected Communities	
PAPs	Project Affected Persons	
PGM	Project General Manager	
PIIM	Project Induced In-Migration	
POE	Panel of Experts	
PPE	Personal Protective Equipment	
PS	Pressure Reduction Stations	
PUF	Pumping Station	
PRS	Polyurethane Foam	
R		
RAP	Resettlement Action Plan	
RoW	Right of Way	
S		
SIL	Safety Integrity Level	
SLT	Senior Leadership Team	
T		
TEAM	Total East Africa Midstream	
U		
UNEP	United Nations Environment Programm	
V		
VECs	Valued Environmental and Social Comp	
VECS	Voluntary Principles on Security and Hu	
WHO	World Health Organization	
WILU	World Health Organization	

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