

RWANDA (DRIVE)

Advisory Review of the Environmental Impact Assessment for the Lake Kivu Water Transport Project



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Advisory Report by the NCEA

Title	Advisory Review of the Environmental Impact Assessment for the Lake Kivu Water Transport Project – Rwanda – DRIVE	
То	The Netherlands Enterprise Agency (RVO.nl)/DRIVE	
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Abbreviations

Democratic Republic of Congo
Environmental and Health Safeguards
Environmental and Social Impact Assessment
Environmental and Social Monitoring and Management Plan
International Financing Corporations Performance Standards
Grievance Redress Committee
Lake Kivu Monitoring Programme
Netherlands Commission for Environmental Assessment
Project Affected Person
Resettlement Action Plan
Rwanda Development Board
Rwanda Environmental Management Authority
Rwanda National Police
Rwanda Transport Development Agency
Netherlands Enterprise Agency
TradeMark East Africa
Terms of Reference

1. Introduction

1.1 Project description

In the policy document Vision 2020 the Rwanda government has stated its intention to improve the transport systems in the country, as transport costs in the region are high. The Rwanda Transport Development Authority (RTDA) has identified inland water transport on Lake Kivu as an additional safe and efficient mode of transportation. Through the development of four Rwandan ports and navigational aids Rwanda aims to provide the basis for enhanced development opportunities. Regulation (e.g. customs), efficiency of passenger and cargo handling and enforcement of safety standards of (ferry) operators are also among the objectives of this intervention.

The project contributes to the larger objective to enable access points for cross-border trade directly across Lake Kivu, to the Democratic Republic of Congo (DRC) and the to-be-built four Rwandan ports. In addition, according to two feasibility studies prepared by WAPCOS and by HPC and Sellhorn, a large increase of small-scale traders and cargo shipments be-tween the cities on the Lake is predicted. This increased demand for enhanced transport and opportunities for small-scale traders will be met by the ferry service.

The ports are located close to villages or within urban limits along Lake Kivu. Lake Kivu is one of the African Rift Lakes, approximately 90 km long and at most 50 km wide. The lake is one of three lakes in the world known to undergo limnic eruptions¹, meaning that lake stability requires special attention for any project located in its vicinity.

The port area surfaces vary between 1.0 and 1.8 hectares. The final design of the ports has not yet been completed, although several accessories such as one or two jetties, immigration posts, and cool storage have already been confirmed. During the construction phase, a total of 5.5 million cubic meters of material needs to be dredged, as indicated in the ESIA. How-ever, how much will be dredged at each port is not described in the designs. The selected sites include pre-existing domestic and economic activities, meaning that resettlements are part of the project. At the time of this review, most resettlements already took place.

In 2016, WAPCOS completed an EIA² for the seven ports that will be part of the project. The content of the EIA was based on a Terms of Reference (ToR) which had been prepared by the Rwanda Development Board (RDB) in 2014. Upon completion, the EIA was reviewed and approved (with conditions attached) by the RDB and reviewed by one of the financiers of the project, TradeMark East Africa (TMEA).

The Netherlands Enterprise Agency (RVO) is considering financing the development of four of the seven ports: the three major ports of Rubavu, Karongi and Rusizi, and the subsidiary port of Nkora. In order to get a better understanding of the environmental and social impacts of

¹ In a limnic eruption, the carbon dioxide and methane gases that have been dissolved in the lake are suddenly released, causing a large cloud of these gases to emerge from the lake. As these gases are poisonous to humans and (most) animals, it can have disastrous effects on the large population living along the lake.

² In its usual parlance, the NCEA speaks of Environmental *and Social* Impact Assessments, or ESIAs. However, the Terms of Reference for WAPCOS did not include social impacts, so their presence in the report is limited. For this reason, in this review the NCEA refers to the WAPCOS report as an EIA.

this project and the way these impacts are managed, RVO has requested the Netherlands Commission for Environmental Assessment (NCEA) to conduct an independent review of the EIA for this project on site.

1.2 NCEA approach

This advice was prepared by a working group of experts acting on behalf of the NCEA. The group comprises expertise in the following disciplines: environmental impacts and (eco)hy-drology, ESMP development and social impacts.

The NCEA has reviewed the following report:

• EIA study, delivery H by WAPCOS, finalised January 2016 (including the ToR in annex).

In addition, the NCEA has taken note of the following documents: Resettlement Action Plan (RAP, 2019 draft version and final version), Certificate of Approval and conditions by RDB, feedback on the EIA by TMEA, Pre-Feasibility study and Feasibility study by HPC and Sellhorn, and several tender documents.

In order to effectively review the EIA for the ports project, the NCEA conducted a field visit to the four port locations in May 2019. The visit was facilitated by the RTDA. One representative of RTDA, as well as the two financing organisations (RVO, TMEA) joined the working group during the field visit. During this visit, the working group not only verified the information contained in the EIA, but it also was able to learn about the practice of Rwandan environmental and social management. At the port locations, the NCEA identified potential environmental and social impacts and met with the following people/organisations:

- RTDA;
- TMEA;
- RDB;
- Rwanda Environment Management Agency (REMA);
- Various stakeholders at port locations (fishermen, property manager, cooperatives, Union of Cooperatives, district authorities, Rwanda National Police Marine Unit);
- Grievance Redress Committee (GRC) set up by RTDA for a road project (the GRCs for the ports project had not yet been established);
- Transparency International offices in Rubavu and Rusizi;
- Rubavu and Karongi District One Stop Center (executive body responsible for, amongst others, resettlement procedures, GRCs, and for ensuring that infrastructure activities comply with national plans and legislation);
- Lake Kivu Monitoring Programme (LKMP) offices in Rubavu and Kigali.

For the review of the EIA report the NCEA made use of the following reference frameworks:

- Rwandan legislation on ESIA;
- The IFC Performance Standards, including further detailing by the World Bank Group Environmental, Health and Safety Guidelines in general and on ports.

2. Main review conclusions

The EIA that was reviewed by the NCEA demonstrates a concerted effort to address environmental impacts, and it meets the requirements set by the Terms of Reference. However, the NCEA observes that the EIA does not yet meet the requirements of the IFC Performance Standards. Main shortcomings include the lack of a comprehensive overview of the consultations conducted, the lack of detailed assessment of potential risks to the environment (such as risks created by dredging), the EIA's limited description of social impacts³, and the lack of detail of the Environmental Management Plan (EMP). Because of these shortcomings, the report does not provide enough insight in potential impacts of the project.

The lack of detail in the EMP leads to serious concerns about the Adaptive Management approach advocated by the proponent. Adaptive Management usually is intended only for specific project-impact relationships. This should be carefully planned, which includes defining "performance thresholds or triggers for adapting mitigation and management" (IFC PS6). Also, the proponent should clearly indicate what capacity is available to adapt project design or mitigation plans in response to new facts and findings.

It is recommended to prepare a more complete and more detailed Environmental and Social Monitoring and Management Plan before contracting to ensure that enough capacity to handle impacts is available. This includes a clear overview of monitoring and management responsibilities, authorizations and tasks, the indicators and impacts that will be studied, clearly identified areas of concern, and the availability of adequate financing for monitoring and mitigation measures.

When comparing the EIA with the requirements of the IFC Performance Standards, several other shortcomings are noted. Some impacts which have not been sufficiently addressed in the EIA are discussed in more detail in chapter two. The remainder is summarised in chapter three.

2.1 EIA Process

2.1.1 Internal consistency and completeness of project documents

Over the last three years (2016–2019), various documents relevant for the financing and approval of the project have been completed (see the overview in Annex 1). These documents include, amongst others, a Feasibility Study, EIA, and RAP. In these documents, relevant information about the project and its potential impacts are given. For example, the RAP gives an overview of the laws and structures governing resettlements in Rwanda. The EIA includes a baseline survey of environmental, social and economic indicators.

However, the process leading to these documents was not undertaken according to international standards, and has resulted in internal inconsistencies. Part of this inconsistency can be explained by the time frame in which the documents were drafted. For example, the EIA doesn't mention resettlements, nor does it refer to the RAP. Instead, the RAP was drafted two

³ The NCEA is aware that social impacts were not included in the ToR for the EIA. However, they are required by the IFC Performance Standards which are used as a reference in this review.

years after the EIA was completed. And the final RAP was published not before May 2019, after the resettlements were completed. The EIA has not been updated since 2016, although in the meantime the project has undergone various changes in purpose and design. According to the approval conditions, RDB should be notified of any change in project design.

Considering the importance of transparency and stakeholder participation for ESIAs in general, it is recommended that the 2016 EIA is updated to include the latest developments in project design and to include the RAP as an annex to the EIA. The EIA should make reference to the fact that resettlements are part of the project and include stakeholder consultations on this. The RAP should include a list of the PAPs who have been resettled and the compensation measures that have been taken (such as payments and/or in-kind compensation). The RTDA should consider whether the updated EIA should be approved by RDB. Also, the EIA should be made public, for example on the website of RTDA (where other ESIAs also are available).

2.1.2 Monitoring and management of project implementation

In order to manage environmental and social risks on a permanent basis, it is necessary to develop and adopt a tailor-made environmental and social management approach. IFC PS1 requires an integrated environmental and social management system. In the EIA an Environmental Management Plan (EMP)⁴ is included, but its contents are limited. Social impacts are not included, nor is the overall process for monitoring described in sufficient detail. Other features that are lacking include stakeholder and accountability arrangements as well as sufficient detail in the cost estimates.

According to RTDA and TMEA, the contractor is expected to provide a more detailed ESMMP together with the tender for the construction phase of the project. TMEA foresees Adaptive Management of the project, where financing and impact mitigation or avoidance are done based on the findings of yet-to-be-conducted studies such as a geotechnical study. Alt-hough flexibility might be necessary for project implementation, this does not preclude careful planning of impact management. Adaptive Management entails the risk that impacts are not clearly understood, foreseen, or anticipated upon. Timely response to new developments will be difficult, costs are not known upfront and opportunities to analyze alternatives, redesign the project in size, location or focus may be lost.

The proponent has the responsibility to regularly update its approach, be clear about when the project will be adapted in response to new facts and findings and to continually improve upon the existing management of impacts. However, the current EIA does not include something resembling an Adaptive Management Plan clarifying who will be responsible for monitoring, which environmental and social impacts should to be monitored and which responses should be taken.

An additional complication is that an ESMMP is also required for the operational phase, which cannot be prepared by the contractor responsible for construction unless the contractor also operates the ports. The EIA should contain an ESMMP that addresses the construction, opera-tion and maintenance phases, outlining the different measures, including at least methodol-ogy, responsibilities, process and outcome monitoring, costs and phasing.

⁴ Note that in general the term 'Environmental *and Social* Monitoring/Management Plan' (ESMMP) is used. As the management plan in the EIA does not include social impacts, it is referred to as an environmental monitoring plan (EMP).

The NCEA expects in any ESIA report an adequate ESMMP in order to establish the robustness of the impact management measures. The report should present a clear picture of potential impacts and it should give assurance on how impacts will be managed.

Under Adaptive Management, the EIA should still include a comprehensive impact management plan. Regular and frequent measurements and inspections are necessary to avoid potential problems with, for example, dredging, piling or new resettlements. The proponent must be clear about when the project will be adapted in response to new facts and findings and to continually improve upon the existing management of impacts. It is recommended to include in the EIA a framework of who is responsible for each aspect of monitoring, and who can be held responsible for resolving issues that are identified during monitoring. Use can be made of existing monitoring mechanisms (see Annex 2).

2.2 Environmental impacts

Lake Kivu is one of the Great African Lakes and is very unique in terms of physical and geochemical structures as it contains large amounts of dissolved carbon dioxide and methane gas. It is known to undergo limnic eruptions, although these are rare. Management of the Lake's resources – including water and methane – is rather complex. Care needs to be taken that the proposed port developments do not lead to any negative cumulative short-term and long-term impacts on the lake and the ecosystem services it provides. For this project, specific areas of concern include the risk of gas eruptions, impacts caused by dredging, impact on ecosystem services, and fuel spill management.

2.2.1 Limnic eruption risk

The composition of Lake Kivu shows remarkable stability, suggesting no significant changes are expected to occur soon. Thorough hazard assessments on limnic eruptions do not exist. The Nyirangongo volcano eruption and consequent lava inflow in 2002 seemed harmless⁵ (Lorke et al., 2004). However, construction activity in the lake might work out differently and should be monitored. Especially the area of the new proposed Nkora port is erosion–prone due to the steep and unstable slopes at this location. It is not clear whether (underwater) landslides caused by construction works can occur near the port sites and whether they could trigger internal waves causing methane gas eruptions. The planned geotechnical study can reduce these uncertainties and can be used to develop management and prevention measures.

The EIA should include a detailed geotechnical study covering the Lake Kivu's coastal zones and detailed bathymetric maps. These are necessary to assess the risk of slope failure (land-slides) at the project sites. Based on these analyses, adequate measures should be taken to prevent erosion and landslides which could destabilise the lake.

⁵ Lorke, A., K. Tietze, M. Halbwachs and A. Wuest, 2004. Response of Lake Kivu stratification to lava inflow and climate warming. Limnol. Oceanogr., 49(3), 2004, 778–783

2.2.2 Dredging impacts

The EIA states that the construction of all ports will entail dredging 5.5 million cubic metres of material. However, it seems unlikely that this dredging volume is necessary, and the feasibility study states that the contractor needs to calculate the actual volume of dredging necessary. Although the EMP does mention that a Dredging Plan should be established, it does not yet give an indication of the composition of the dredged materials, whether the materials can be reused or, if not, where the materials will be disposed of. The NCEA notes that positive use might be made of dredging material, if this is planned well.

Although the Feasibility Study states that the contractor should follow best management practices to minimise environmental impacts, this is not specified. Note that some disposal strategies such as discarding dredging material in the lake, might have effect on the stability of the lake and are therefore not recommended.

The geotechnical study should conduct a soil analysis in order to provide information on the opportunities to reuse the dredged materials in the land reclamation for the ports. If reuse is not possible, the EIA should indicate where the dredged materials will be disposed of and where materials for the reclamation will be sourced.

2.2.3 Monitoring and management of impacts on ecosystem services

The coastal zones are important in terms of the ecosystem services they provide (such as the supply of freshwater, biodiversity, and food from fishing and agriculture) as well as its value for tourism. However, the coastal zones are under increasing human-induced pressures. Increased agricultural activity and urbanization in the densely populated western province of Rwanda are sources of environmental pollution that can affect fish catches. This can also trigger potential conflicts among fishermen in Rwanda and DRC.

In the EIA an analysis of possible cumulative impacts, including climate change impacts, is lacking. And the content of the measures, plans and policies described in the EMP do not contain all essential details. Precise timing and performance indicators are often not provided. This makes it difficult to monitor and manage ecological impacts.

The EIA should carefully assess and present potential impacts and include measures to prevent or mitigate negative impacts. Cumulative impacts of all developments near the shore need to be included in order to safeguard the integrity of the coastal land and the water quality. However, as stated before the EMP is lacking in management and monitoring details on various topics.

The NCEA notes that a well-designed project creates the opportunity of improving safety for naval transport. It recommends that outlines of the following plans are composed before final project approval. These outlines should comply with the EHS Guidelines of the World Bank.

- Dredging, Soil and Drainage Management Plan which includes control procedures for resuspension, sedimentation, run-off, and erosion (see also 2.2.1);
- Fuel and Chemical Spill Prevention and Contingency plans (see 2.2.4);
- Waste and sewage Management and Disposal Plan (including bilge water treatment);
- Hazardous Materials Management Plan;
- Emergency Action and Response Plan identifying potential emergencies (like earthquakes, fire, collision of ships or construction equipment, accidents with ferries), countermeasures, responsibilities, response equipment, and communication lines.

2.2.4 Fuel spill prevention and response

The EIA does not refer to risks of fuel and oil spills during construction of the ports, and the EMP's discussion of oil spills during operation phase is quite limited. Spills can occur on land during the storage, transportation and filling of vessels and construction equipment, but also on the lake in case of collisions, grounding or during filling of vessels. Fuel spills negatively affect the biodiversity and ecosystem services and could create occupational and community safety and health risks. In view of the large quantities of fuel required for the construction and operation phases, these risks should be assessed as high.

The NCEA recommends preparing a comprehensive fuel spill prevention and response plan for the construction and operation phases. This should contain at least:

- risk assessment;
- preventive measures;
- division of responsibilities;
- cost estimates,;
- Indication of necessary equipment, training and education,
- communication structures;
- explanation of how emergency services in the area will be engaged.

In the General Environmental, Health, and Safety (EHS) Guidelines hazardous materials management⁶ and in the EHS Guidelines for ports and terminals⁷ of the World Bank clear requirements are given for fuel spill prevention and response.

2.3 Social impacts

In general, the EIA does not pay sufficient attention to the potential social impacts of the project. The assessment of social impacts in the EIA is limited to the construction phase (mainly related to noise and dust), while the operation phase is not included. This is problematic: if, for example, labor is not sourced locally, the influx of workers from outside the immediate area can have significant negative social effects. It should be noted that some impacts normally only materialise after construction (during the operation phase), when increased

⁶ https://www.ifc.org/wps/wcm/connect/47d9ca8048865834b4a6f66a6515bb18/1-5%2BHazardous%2BMaterials%2BManagement.pdf?MOD=AJPERES

⁷ https://www.ifc.org/wps/wcm/connect/d2f2cf88-ce22-4a48-86fc-45ee3b8e9e45/20170201-FINAL_EHS+Guidelines+for+Ports+Harbors+and+Terminals.pdf?MOD=AJPERES

business activity may endanger traditional livelihoods. For example, new businesses may require new land which would entail physical and economic resettlement affecting the livelihood of local people.

From the EIA, it was not clear whether meetings with community members had taken place. In the list of consulted stakeholders, various governmental organisations are mentioned, but only few non-governmental representatives. During the field visit it became apparent that various rounds of consultation were held (especially for the RAP). However, documentation is limited: the final document lacks a list of PAPs consulted. Also, in the RAP the livelihood restoration plan is inadequate.

Regarding compensation for resettlements, this seems to have been well managed: the project was adapted to avoid unnecessary resettlements, stakeholders have been identified and informed, and PAPs have been compensated with new housing, land or cash. Some complaints were mentioned concerning delays in payment (beyond the official time limits). Grievance procedures do exist and are applied; people express their grievances and know whom to contact. However, to meet international standards on transparency and accountability, this process should be well-documented in the RAP and in the recording of the resettlement process.

The NCEA recommends that the assessment of social impacts goes beyond resettlements and that the EIA is updated to include social impacts during the construction phase (e.g. hired workers from other areas, potentially leading to Gender Based Violence) and the operation phase (e.g. social changes because of predicted economic development). Referring to the IFC Performance Standards helps to include potential social impacts.

The resettlement procedures, even now that they have already been carried out, should be well-documented.

2.4 Cumulative impacts of associated facilities

According to IFC PS 1, a project should not be considered in isolation. Associated facilities such as the other ports or a shipyard, as well as indirect impacts stemming from the project should be included in an ESIA-report. Hence, the EIA should mention potential impacts of activities that are caused by the project.

For example, the EIA indicates that several short stretches of road have to be constructed to connect the harbors to the main road. However, the report does not specify in a satisfactory manner the way in which this will be done, nor does it list potential impacts. Road construction can have significant impacts on community health and the ecosystem and will in some cases also entail resettlement.

The project is also directly connected to other projects. One example of a project which is directly related to the ports project is the construction of cross-border markets (some of which have already been completed). These will be located close to the port locations to facilitate the trade with DRC. As the port and the cross-border market are expected to cumulatively lead to an increase in transfers between DRC and Rwanda, measures should be taken by port management and local authorities to handle increased transboundary trade and to prevent illegal activities (such as illegal trade and smuggling).

Not only will the project go hand in hand with the development of other projects, as discussed above it will also lead to increased economic activity in general attracting, according to the forecasts presented in the Feasibility Study, huge numbers of people. The Feasibility Study and the data in the EIA foresee a strong increase in population movement and economic growth. Based on experience with other ports, these projects indeed tend to attract (informal) businesses such as small factories, (informal) settlements, storage of (hazardous) products and transport. These activities, in turn, will have environmental and social impacts. The EIA, however, does not indicate to what extent the current environment is ready to handle these influxes, nor is a management plan for these impacts established.

The NCEA recommends including associated facilities in the description of the project's area of influence. The EIA should consider the risks and impacts associated with these facilities, as is required by IFC PS1. Relevant activities include:

- Development of feeder roads,
- Construction of cross-border markets,
- Economic growth leading to increased associated activities.

The NCEA recommends drafting a strategic policy for the transport system (lake and land), where relevant long-term developments such as roads, markets, increased water transport, and economic growth are charted and planned in relation to the ports and each other. A Strategic Environmental Assessment supporting this policy can help consider the long-term environmental and social impacts of these developments, and how they can offset or strengthen each other.

3. Comparison with IFC Performance Standards

In general, the NCEA notes that although the EIA includes a chapter on Rwandan legislation on EIA and land management, no reference is made to international guidelines. In general, the IFC Performance Standards are useful guidelines for ESIA development and international good practice. In addition, they are used by many international financers, including RVO, as criteria for project funding decisions.

The NCEA has assessed the EIA with regard to the IFC Performance Standards and concludes that Performance Standards 1– 6 are relevant for this project. PS 7 and 8 do not seem to apply. The NCEA has reviewed to what extent the relevant IFC PSs are adequately addressed in the EIA. The review resulted in a list of shortcomings that are presented in the table below. The findings listed here summarise and support the general observations made in chapter 2. In some cases, additional detailed observations are included as well.

The NCEA recommends remedying these shortcomings in the next version of the EIA report, and to pay special attention to the monitoring of these aspects.

IFC Performance Standard 1: Social and Environmental Assessment and Manage-		
ment Systems		
Objectives:	Shortcomings:	
 To identify and evaluate envi- ronmental and social risks and impacts of the project. To adopt a mitigation hierarchy to anticipate and avoid, or where avoidance is not possi- ble, minimise and where resid- ual impacts remain, compen- sate/offset for risks and im- pacts to workers, Affected Communities, and the environ- 	 Social risks and impacts are not covered sufficiently in EIA. The description of social economic impacts caused by environmental impacts, e.g. on ecosystem services, is lacking. The EIA does not contain a description of the assessment framework used. In the impact assessment methodology used, the magnitude of potential impacts is not made explicit. As a result, the effectiveness of proposed measures remains uncertain. In addition, the magnitude of impacts remains unclear in 	
 ment. To promote improved environ- mental and social performance 	case a measure will not be implemented or proves to be ineffective.The ESMMP does not provide sufficient infor-	
of clients through the effective use of management systems.	mation with regard to those assigned responsi- bility, nor how the project will enhance their ex- isting capacity to deliver effectively	
Affected Communities and ex- ternal communications from other stakeholders are re- sponded to and managed ap-	 Cooperatives and unions, as representatives of the pelagic and traditional fishermen, should be involved in the monitoring of the economic and social impacts during and after construction. 	
 propriately. To promote and provide means for adequate engagement with Affected Communities. 	 The NCEA notes that the Lake Kivu Monitoring Programme (LKMP) already independently mon- itors various relevant environmental indicators. In addition, they will build a new laboratory in 	
• Throughout the project cycle on issues that could potentially	Rubavu port. The RTDA could consider involving LKMP in monitoring.	

	affect them and to ensure that				
relevant environmental and so-					
	cial information is disclosed				
	and disseminated.				
IFC	C Performance Standard 2: Labo	ur a	nd Working Conditions		
Ob	Objectives:		Shortcomings:		
•	To promote the fair treatment,	•	The Rwandan legal and institutional system in-		
	non-discrimination and equal		cludes many useful safeguards to prevent issues		
	opportunity of workers.		such as child labour. However, from the EIA it		
•	To establish, maintain, and im-		does not become clear who will be responsible		
	prove the worker-management		for the screening of contractors and how they		
	relationship.		will be monitored on compliance. The EMP		
•	To promote compliance with		should describe the way how the contractors'		
	national employment and labor		performance in their compliance to the proce-		
	laws.		dures (as proposed in this EIA), as well as to ap-		
•	To protect workers, including		plicable national employment and labour laws is		
	vulnerable categories of work-		monitored. This needs to be monitored in order		
	ers such as children, migrant		to be sure that the good intentions are being		
	workers, workers engaged by		put into practice.		
	third parties, and workers in the	•	For various reasons, not all employees always		
	client's supply chain.		receive minimum wage in Rwanda. The EIA		
•	To promote safe and healthy		should explain how the proponent will		
	working conditions, and the		guarantee fair income during construction and		
	health of workers.		operation. A recruitment and labour plan		
•	To avoid the use of forced		should be prepared for construction and		
	labour.		operation. An outline should be included in the		
•	See PS4 for comments on occu-		EIA.		
	pational health and safety.				
IFC	2 Performance Standard 3: Reso	urce	e Efficiency		
Ob	jectives 3:	Sho	ortcomings:		
٠	To avoid or minimise adverse	٠	The dredging operation will result in dredged		
	impacts on human health and		materials which need to be disposed of or which		
	the environment by avoiding or		can be reused for land reclamation. Since the		
	minimizing pollution from pro-		quality of the materials is not known at this		
	ject activities.		stage, the disposal or reuse options are unclear.		
•	To promote more sustainable		This may result in unknown impacts and risks,		
	use of resources, including en-		depending on the end use chosen. The planned		
	ergy and water.		geotechnical survey of the materials should de-		
•	To reduce project-related GHG		fine the disposal and reuse opportunities. An		
	emissions.		estimation of the soil balance should be pre-		
			pared to know the volumes to be dredged, to be		
			reused, to be disposed and to be sourced for		
			land reclamation. This should be done for each		
			port individually (see 2.2.2).		
		•	It is unclear whether dredging will lead to in-		
			creased GHG emissions. This depends on the		
1			composition of the dredged materials; it should		

		•	be included in the dredging management plan (see 2.2.1 and 2.2.2.). Further hydrodynamical investigation (such as a more detailed bathymetric maps) is necessary to determine the refreshment rates of affected wa- ters in the bays. This is necessary to better un- derstand the impact of increased turbidity caused by construction activities. With the cur- rent information it is not clear whether mitiga- tion measures proposed will be sufficient (see also below, PS6).
IFC	Performance Standard 4: Com	mun	iity Health, Safety and Security
Ob •	jectives: To anticipate and avoid adverse impacts on the health and safety of the Affected Commu- nity during the project life from both routine and non-routine circumstances. To ensure that the safeguarding of personnel and property is carried out in accordance with relevant human rights principles and in a manner, that avoids or minimises risks to the Affected Communities.	•	Distriction of the project site. However, nearest residential area is 1 km. Thus, the effects of noise should be stated more accurately.
			stated more accuracy.
IFC	Performance Standard 5: Land	Acq	juisition and Involuntary Resettlement
Ob	jectives: To avoid and, when avoidance is not possible, minimise dis- placement by exploring alterna- tive project designs.	Sho •	The EIA does not describe how the project loca- tions were selected. During the field visit, the NCEA understood that the locations and project design have been adapted so as to avoid un-
•	To avoid forced eviction. To anticipate and avoid or, where avoidance is not possible, minimise adverse social and economic impacts from land ac- quisition or restrictions on land use by (1) providing compensa- tion for loss of assets at re- placement cost and (2) ensuring	•	necessary displacement. Stakeholders (such as the RNP) have been included in this process. This process should be described in the EIA. Engagement of affected communities is not well-recorded, and minutes are not included in the EIA or the RAP. These should be attached in an update of the EIA (see 2.1.1).

that resettlement activities are	Resettlements are mostly completed. Recording f the implementation of the process should be
disclosure of information, con	of the implementation of the process should be
cultation, and the informed par	available (see. 2.1.1).
ticipation of those affected	
• To improve or restore the live-	
liboods and standards of living	
of displaced persons.	
 To improve living conditions 	
among physically displaced per-	
sons through the provision of	
adequate housing with security	
of tenure at resettlement sites.	
IFC Performance Standard 6: Biodi	versity Conservation & Sustainable Management
Ohiostiyosy	Charter min an
 To protect and conserve biodi- 	The taxonomic assessment of the FIA seems a
versity	temporal (snap-shot) of a limited number of an-
 To maintain the benefits from 	imal and plant species and is incomplete. There
ecosystem services	are some species in the Lake Kivu area which are
• To promote the sustainable	considered endangered and were not con-
management of living natural	sidered in the EIA. This assessment should be
resources through the adoption	done comprehensively and needs to cover the
of practices that integrate con-	status and trends of all important and endan-
servation needs and develop-	gered species of the animal and plant classes,
ment priorities.	like the ones above, in the potentially impacted
	lake and land areas at the proposed develop-
	ment sites.
	 The EIA does not pay enough attention to po-
	tential adverse impacts of construction and op-
	eration on the specific lake shore zones and
	their environments. Specifically, construction
	activities such as dredging and piling create
	lower exygen levels increase pollution and hin
	der feeding and snawning of fish. In turn, this
	results in decreased fish populations. Recause
	of the limited refreshment rate in the bay areas
	and the stratified nature of the lake, turbidity
	plumes remain relatively stagnant.
IFC Performance Standard 7: Indig	enous Peoples
Objectives:	Shortcomings:
• To address the need to avoid or	• The RAP states that the project will not affect
minimise impacts on indigenous	directly any vulnerable PAPs. It is not clear
peoples.	whether this is meant to mean indigenous
	peoples as intended by IFC PS7. The EIA should
	explicitly state whether indigenous peoples are

•	To ensure sustainable and cul- turally appropriate development of benefits and opportunities. To ensure Free, Prior and In- formed Consent (FPIC) of all	Affected and on what data and assumptions this statement is based.
	peoples.	
IFC	C Performance Standard 8: Cultu	ral Heritage
Ob	jectives:	Shortcomings:
•	To protect cultural heritage from the adverse impacts of project activities and support its preservation. To promote the equitable shar- ing of benefits from the use of cultural heritage.	 The EIA should explicitly state that no cultural heritage is affected. Also, it should state that if cultural heritage is touched upon unexpectedly, it will be handled in accordance with this IFC PS.

Annex 1: List of documents related to EIA process

Year	Document	Comments
2010	Technical & Economic Feasibility Study	The NCEA has not been able to
	by M/s KNUD E Hansen and ASEC Consult	view this document.
2015	Feasibility Study	The NCEA has not been able to
	by WAPCOS	view this document.
2016	EIA (Delivery H)	ToR approved in 2014
	by WAPCOS	
	Certificate of Approval of EIA	
	by RDB	
2017		
2017	Pre-Feasibility Study	
	by HPC and Sellhorn	
	Faasikilis, Coud-	This includes a summany undate
	Feasibility Study	of the EIA
	by the and semiorn	
2018	Navigation Safety Study	The NCEA has not been able to
2010	by Alpha Logistics	view this document.
	Resettlement Action Plan	Not (yet) publicly available.
	by RTDA (internal document)	First resettlements took place
		before finalization of this docu-
		ment.
2019	Final Resettlement Action Plan	
	Review of EIA	*not published to date. The
	by independent consultant of TMEA	NCEA has not been able to view
		this document.
Recomme	ended documents to follow	Γ
	Updated Management and Monitoring Plan	
	Updated EIA including RAP and outline of	
	impact management plans	

Annex 2: Monitoring and grievance mechanism

Note: this list is compiled by the NCEA, based on observations made during the field visit. The content of Annex 2 is provided for information purposes only.

Project environmental monitoring

- Sector or District Environmental Direction Offices conduct monthly inspections of project sites. This is done together with local stakeholders (who exactly is involved depends on the specific project). Participants can include fishery cooperatives or port officials.
- If major issues arise, REMA is informed. They can conduct an inspection if they deem it necessary.
- In general, REMA aims to conduct inspections twice a year. Depending on the sensitivity of the project and capacity, this can be more often (up to four times a year) or less (once a year).

Project social monitoring

- Complaints can first be brought to the cell administrative level
- Subsequently the sector, and last at district level. At the district level, one of the two vice-mayors is responsible for social issues.
- If the issues cannot be resolved by local administrative officials, the ministry of local government is involved.

Grievance Redress Committee (for RTDA projects)

- The GRC is comprised of PAPs, who are asked to select the members of the committee. Members include a president, vice-president, secretary, and gender balance representative.
- Comments, complaints, and requests are logged in a book. Those who submit a complaint are requested to sign the book.
- Issues that cannot be resolved locally are forwarded to RTDA, who checks the logbook. The RTDA has reserved a budget to meet claims made through the GRC.
- Delays in payments are common; although the legal payment term is four months there are examples of payments taking up to two years.

General grievance mechanism

- In addition to the formal complaint hierarchy, most governmental organisations have a tollfree number that can be called to ask questions or make complaints. This number is published via signs, radio messages, and electricity bills.
- The governmental official who is responsible for answering the tollfree phone calls has to report once a week about the nature of the phone calls and to make suggestions on how improvements can be made to meet complaints.

Other observations

- There seems to be no data sharing between the various monitoring institutes. This could lead to oversights.
- NGOs such as Transparency International also can receive complaints. These NGOs seem to be well-aware of the content of the Rwandan Law. Main complaints received by Transparency International concern delays in payments of reimbursements.