

Environmental Checklist: 14. Power Transmission and Distribution Lines | 111

Category	Environmental Item	Main Check Items	Confirmation of Environmental Considerations
1 Permits and Explanation	(1) EIA and Environmental Permits (2) Explanation to the Public	Have EIA reports been officially completed? Have EIA reports been approved by authorities of the host country's government? Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied? In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government? Are contents of the project and the potential impacts adequately explained to the public based on appropriate procedures, including information disclosure? Is understanding obtained from the public? Are proper responses made to comments from the public and regulatory authorities?	
2 Mitigation Measures	(1) Water Quality	Is there a possibility that soil runoff from the bare lands resulting from earthmoving activities, such as cutting and filling will cause water quality degradation in downstream water areas? If water quality degradation is anticipated, are adequate measures considered?	
3 Natural Environment	(1) Protected Areas (2) Ecosystem	Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas? Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)? Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions? If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem? Are adequate measures taken to prevent disruption of migration routes and habitat fragmentation of wildlife, and livestock? Is there a possibility that improved access by the project will cause impacts, such as destruction of forest, poaching, desertification, reduction in wetland areas, and disturbance of ecosystem due to introduction of exotic (non-native invasive) species and pests? Are adequate measures for preventing such impacts considered? In cases where the project site is located in undeveloped areas, is there a possibility that the new development will result in extensive loss of natural environments?	

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3 Natural Environment	(3) Topography and Geology	<p>Is there a soft ground on the route of power transmission lines that may cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides, where needed?</p> <p>Is there a possibility that civil works, such as cutting and filling will cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides?</p> <p>Is there a possibility that soil runoff will result from cut and fill areas, waste soil disposal sites, and borrow sites? Are adequate measures taken to prevent soil runoff?</p>	
4 Social Environment	(1) Resettlement	<p>Is involuntary resettlement caused by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement?</p> <p>Is adequate explanation on relocation and compensation given to affected persons prior to resettlement?</p> <p>Is the resettlement plan, including proper compensation, restoration of livelihoods and living standards developed based on socioeconomic studies on resettlement?</p> <p>Does the resettlement plan pay particular attention to vulnerable groups or persons, including women, children, the elderly, people below the poverty line, ethnic minorities, and indigenous peoples?</p> <p>Are agreements with the affected persons obtained prior to resettlement?</p> <p>Is the organizational framework established to properly implement resettlement? Are the capacity and budget secured to implement the plan?</p> <p>Is a plan developed to monitor the impacts of resettlement?</p>	
	(2) Living and Livelihood	<p>Is there a possibility that the project will adversely affect the living conditions of inhabitants? Are adequate measures considered to reduce the impacts, if necessary?</p> <p>Is there a possibility that diseases, including communicable diseases, such as HIV will be introduced due to immigration of workers associated with the project? Are adequate considerations given to public health, if necessary?</p> <p>Is there a possibility that installation of structures, such as power line towers will cause a radio interference? If significant radio interference is anticipated, are adequate measures considered?</p>	
	(3) Heritage	<p>Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage sites? Are adequate measures considered to protect these sites in accordance with the country's laws?</p>	

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4 Social Environment	(4) Landscape	Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken?	
	(5) Ethnic Minorities and Indigenous Peoples	Where ethnic minorities and indigenous peoples are living in the rights-of-way, are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous peoples? Does the project comply with the country's laws for rights of ethnic minorities and indigenous peoples?	
5 Others	(1) Impacts during Construction	Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)? If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts? If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts? If necessary, is health and safety education (e.g., traffic safety, public health) provided for project personnel, including workers?	
	(2) Monitoring	Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts? Are the items, methods and frequencies included in the monitoring program judged to be appropriate? Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)? Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the social authorities?	
6 Note	Note on Using Environmental Checklist	If necessary, the impacts to transboundary or global issues should be confirmed, (e.g., the project includes factors that may cause problems, such as transboundary waste treatment, acid rain, destruction of the ozone layer, or global warming).	

1) Regarding the term "Country's Standards" mentioned in the above table, in the event that environmental standards in the country where the project is located diverge significantly from international standards, appropriate environmental considerations are made, if necessary.
In cases where local environmental regulations are yet to be established in some areas, considerations should be made based on comparisons with appropriate standards of other countries (including Japan's experience).

2) Environmental checklist provides general environmental items to be checked. It may be necessary to add or delete an item taking into account the characteristics of the project and the particular circumstances of the country and locality in which it is located.

*Scoping Report and TOR for the Proposed Kisumu-Lessos-Olkaria
Transmission Line Upgrading Project, July 2009*

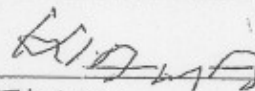
ANNEX 2 – PUBLIC VIEW QUESTIONNAIRE

The Proposed Kisumu-Lessos-Olkaria Transmission Line Upgrading Project

Public View Questionnaire for the EIA Scoping Report of the Proposed Kisumu-Lessos-Olkaria Transmission Line Upgrading Project

The Kenya Power & Lighting Company Limited (KPLC) intends to construct a transmission lines and relevant facilities between Kisumu-Lessos-Olkaria. The project is currently under a study, and an Environmental and Social Impact Assessment (ESIA) is planned be conducted by a consultant from Aug. 2009 to Nov. 2009 to examine the environmental and social impacts of the proposed project. This is a preliminary questionnaire survey to obtain the public views as required by the Environmental Management Coordination Act (EMCA) of 1999, and your views and comments will help us to prepare the EISA Study which will be submitted to National Environment Management Authority (NEMA). Your response will be greatly appreciated.

1.0 General Information

1.1 Date of Interview	17.7.2009
1.2 Respondent Name & Signature	TIMOTHY KIAMA 
1.3 Address/Tel	P.O. ELMGATITA
1.4 ID No.	
1.5 Occupation	RETIRED
1.6 Residential Place in Respect to the Project Site	ELEMENTITA

2.0 What impacts (positive/negative) will the proposed project have on this area in view of the following? Please tick the applicable items and select the impact type (positive/negative).

- Natural Environment (e.g. Trees & Wildlife) (Positive / Negative)
- Land Acquisition (Positive / Negative)
- Displacement of Structures for Line Corridors and Service Road (Positive / Negative)
- Employment (Positive / Negative)
- Economic Development (Positive / Negative)
- Socio-economic Change (Positive / Negative)
- Improved Access to Infrastructure (e.g. Electricity, Service Roads, etc.) (Positive / Negative)
- Landscape (Positive / Negative)
- Soil Erosion (Positive / Negative)
- Solid waste generation (Positive / Negative)
- Air Quality (e.g. Dust/Pollutants during Construction) (Positive / Negative)
- Noise during Construction (Positive / Negative)
- Public Safety (Positive / Negative)
- Others (Positive / Negative)

If you identify any negative impact, please provide the details.

Is there some compensation if the line passes
thru my land -

3.0 Please give any additional comments concerning the project.

Thank you very much for your cooperation.

Safety, Health and Environment Department, KPLC

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1.0 General Information

1.1 Date of Interview	17.7.2009
1.2 Respondent Name & Signature	PETER NJUGUNA
1.3 Address/Tel	Tel. 0716 956 687
1.4 ID No.	2515251
1.5 Occupation	FARMER.
1.6 Residential Place in Respect to the Project Site	BAGARIA

2.0 What impacts (positive/negative) will the proposed project have on this area in view of the following? Please tick the applicable items and select the impact type (positive/negative).

- Natural Environment (e.g. Trees & Wildlife) (Positive / Negative) *be cent. trees were*
- Land Acquisition (Positive / Negative) *need to agree with the owners.*
- Displacement of Structures for Line Corridors and Service Road (Positive / Negative)
- Employment (Positive / Negative) *local young*
- Economic Development (Positive / Negative)
- Socio-economic Change (Positive / Negative)
- Improved Access to Infrastructure (e.g. Electricity, Service Roads, etc.) (Positive / Negative)
- Landscape (Positive / Negative)
- Soil Erosion (Positive / Negative)
- Solid waste generation (Positive / Negative)
- Air Quality (e.g. Dust/Pollutants during Construction) (Positive / Negative)
- Noise during Construction (Positive / Negative)
- Public Safety (Positive / Negative) *no harm.*
- Others (Positive / Negative)

If you identify any negative impact, please provide the details.

but erosion does occur

3.0 Please give any additional comments concerning the project.

Is there any compensation for those with food crops or houses along the line?
Do you employ the locals or you come with your own?

Thank you very much for your cooperation.

Safety, Health and Environment Department, KPLC



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1.0 General Information

1.1 Date of Interview	17.7.2009
1.2 Respondent Name & Signature	VERONICA NJOKI
1.3 Address/Tel	0714332089.
1.4 ID No.	
1.5 Occupation	FARMER
1.6 Residential Place in Respect to the Project Site	KIRIMA, KIMBOROA

2.0 What impacts (positive/negative) will the proposed project have on this area in view of the following? Please tick the applicable items and select the impact type (positive/negative).

- Natural Environment (e.g. Trees & Wildlife) (Positive / Negative)
- Land Acquisition (Positive / Negative) — *pa*
- Displacement of Structures for Line Corridors and Service Road (Positive / Negative)
- Employment (Positive / Negative) — *expects employment*
- Economic Development (Positive / Negative)
- Socio-economic Change (Positive / Negative)
- Improved Access to Infrastructure (e.g. Electricity, Service Roads, etc.) (Positive / Negative)
- Landscape (Positive / Negative) — *improves quality*
- Soil Erosion (Positive / Negative)
- Solid waste generation (Positive / Negative)
- Air Quality (e.g. Dust/Pollutants during Construction) (Positive / Negative)
- Noise during Construction (Positive / Negative)
- Public Safety (Positive / Negative)
- Others (Positive / Negative) — *no problem expected*

If you identify any negative impact, please provide the details.

Soil erosion is an issue. May arise durig construction

3.0 Please give any additional comments concerning the project.

People may want compensation if pacted

Thank you very much for your cooperation.

Safety, Health and Environment Department, KPLC

Myth about lake. Cow disappeared and was collected in Kisumu.