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## A8-1 モニタリング・フォーム案

## Monitoring Forms ent building with local leadership

- :	REA explains	to the local leaders about the Pr	oject, schedule and establis			S.
No.	Date	Location (LCI/Sub-county)	Consent Level	_	Special Instructions (Questions & Answers, Opinions)	
1 2 3						After E/N and agreement, Monthly by
						Community
- :	-	n: 2. Consent building with Proje s to PAPs about the Project, sched ummarized.)			lllation work starts. (The cor	sent forms of
No.	Date (from-to)	Location (LCI/Sub-county)	Consent Level	_	Instructions (Questions & Answers, Opinions)	Frequency
1 2 3						Before the installation work starts, Monthly by
M	onitoring Itan	n: 3. Loss of crops				Community
	•	noved due to the installation wor	ks are recorded. (The comp	pensation assessmer	nt forms of REA can be sum	marized.)
No.	Date (from-to)	Location (LCI/Sub-county)	Type of Crops	Condition	Number of Crops	Frequency
1 2						Monthly by Sub-county
3						
	_	n: 4. Trees felled ed due to the installation works a	are recorded. (The compens	sation assessment fo	orms of REA can be summar	ized.)
No.	Date (from-to)	Location (LCI/Sub-county)	Type of Tree	Condition (height/age)	Number of Trees	Frequency
2						Monthly by Sub-county
3						
-	_	n: 5. Payment of compensation compensation for the crops and trarized.)	rees removed due to the ins	stallation works are	recorded. (The payment voi	ichers of REA
No.	Date (from-to)	Location (LCI/Sub-county)	Number of Persons	Special Instructi	ions (Questions & Answers, Opinions)	Frequency
1 2 3						Monthly by Sub-county
	*, * <b>*</b>					
	_	n: 6. Re-planted trees ees will be recorded.				
No.	Date (from-to)	Location (LCI/Sub-county)	Type of Tree	Condition (height/age)	Number of Trees	Frequency
2						Monthly by Sub-county
3						

Mo	Monitoring Item: 7. Sensitization for safe use of electricity									
- ]	- REA explains and sensitizes the local people safety and hazards related to electricity usage before commissioning.									
No.	Date	Location	Type of	Number of	Special Instructions (Questions &	Frequency				
NO.		(District/Sub-county)	Media	Participants	Answers, Opinions)					
1						Before the				
2						operation starts,				
3					Monthly by District or					
						Sub-county				
						1				

## A8-2 環境チェックリスト

## Environmental Checklist: Power Transmission and Distribution Lines

		Environmental	W: Cl. Lt.	Yes:Y	Confirmation of Environmental Considerations
Ca	tegory	Item	Main Check Items	No:N	(Reasons for Yes/No, Mitigation Measures)
	nd xplanati	(1) EIA and Environmental Permits	<ul> <li>(a) Have EIA reports been already prepared in official process?</li> <li>(b) Have EIA reports been approved by authorities of the host country's government?</li> <li>(c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied?</li> <li>(d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government?</li> </ul>	Y	<ul> <li>(a) According to the National Environment Act, Cap.153, which stipulates the types of projects subject to EIA, a full EIA was not required for the Project. Full EIAs were not required for the former REA's projects for installation of 33kV distribution lines. REA, the Project implementing agency, prepared A Project Brief (PB) explaining the project activities, baseline conditions, evaluation of environmental and social impacts and mitigation measures. REA submitted the PB to NEMA for review and approval of the Environmental aspects of the project and obtaining an Environmental Certificate for the Project.</li> <li>(b) (c): The review process of the PB by NEMA and other lead agencies and relevant districts is going on. NEMA will give REA Environmental Certificate for the Project once the review is concluded and comments obtained. The certificate is expected by end of November, 2011.</li> <li>(d): No other environmental permits are required unless it comes up as a condition of approval in the Environmental Impact</li> </ul>
		(2) Explanation to Local Stakeholders  (3) Examination of Alternatives	<ul> <li>(a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders?</li> <li>(b) Have the comment from the stakeholders (such as local residents) been reflected to the project design?</li> <li>(a) Have alternative plans of the project been examined with social and environmental</li> </ul>		Assessment Certificate  (a) REA held public consultations with the local leaders along the project routes and conducted two stakeholder's meetings at two sites. Explanations about the project and presentation of the likely environmental and social impacts and with mitigation measures were done. The comments are reflected as mitigation measures  (a): Three alternative project sites and the zero option (the case without the Project) were
			considerations?		examined with four evaluation items, benefits to expected consumers and public facilities, urgency (scale of TC and social service facilities), social environment, and natural environment.
	Pollution ontrol	(1) Water Quality	(a) Is there any 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 the water quality degradation is anticipated, are adequate measures considered?		(a): The installation of distribution lines will not involve any major alteration of the local topography or large-scale civil engineering work. Consequently, there will be no soil runoff to the extent of worsening the water quality.
	Natural nvironm nt	(1) Protected Areas	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there		(a): The Project sites are not located in protected areas. One central forest reserve named Irimbi aimed to industrial plantation is

Category	Environmental Item	Main Check Items	Yes:Y No:N	
		a possibility that the project will affect the protected areas?		located along the Project Route but it is partially planted and mostly cultivated with maize. REA will compensate owners if the trees or crops are removed for the Project.
	(2) Ecosystem	<ul> <li>(a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)?</li> <li>(b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions?</li> <li>(c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem?</li> <li>(d) Are adequate measures taken to prevent disruption of migration routes and habitat fragmentation of wildlife and livestock?</li> <li>(e) Is there any possibility that the project will cause the negative 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?</li> <li>(f) In cases where the project site is located in undeveloped areas, is there any possibility that the new development will result in extensive loss of natural environments?</li> </ul>		(a)-(f): There are no special habitats of endangered fauna or flora. Seasonal and a few permanent wetlands that are highly modified and cultivated exist along the project area.
	(3) Topography and Geology	<ul> <li>(a) Is there any soft ground on the route of power transmission and distribution lines that may cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides, where needed?</li> <li>(b) Is there any 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?</li> <li>(c) 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?</li> </ul>		(a)-(c): The Project site is almost gently hilly land. No major alterations of the local topography or large-scale civil engineering work will occur under the Project, making slope failures, landslides or soil runoff highly unlikely.
4. Social Environm ent	(1) Resettlement	<ul> <li>(a) Is involuntary resettlement caused by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement?</li> <li>(b) Is adequate explanation on compensation and resettlement assistance given to affected people prior to resettlement?</li> <li>(c) Is the resettlement plan, including compensation with full replacement costs, restoration of livelihoods and living standards developed based on socioeconomic studies on resettlement?</li> </ul>		(a)-(j): No involuntary resettlement is expected in the Project. 33kV distribution lines will be installed within the road reserve along the present roads. Most buildings are built set-back from the carriageways and the lines will be installed to avoid the buildings.

Er	nvironmental	W. G. i.	Yes:Y	Confirmation of Environmental Considerations
Category	Item	Main Check Items	No:N	(Reasons for Yes/No, Mitigation Measures)
		<ul> <li>(d) Are the compensations going to be paid prior to the resettlement?</li> <li>(e) Are the compensation policies prepared in document?</li> <li>(f) Does the resettlement plan pay particular attention to vulnerable groups or people, including women, children, the elderly, people below the poverty line, ethnic minorities, and indigenous peoples?</li> <li>(g) Are agreements with the affected people obtained prior to resettlement?</li> <li>(h) Is the organizational framework established to properly implement resettlement? Are the capacity and budget secured to implement the plan?</li> <li>(i) Are any plans developed to monitor the impacts of resettlement?</li> <li>(j) Is the grievance redress mechanism established?</li> <li>(a) 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?</li> <li>(b) Is there a possibility that diseases, including infectious diseases, such as HIV will be brought due to immigration of workers associated with the project? Are adequate considerations given to public health, if necessary?</li> <li>(c) Is there any possibility that installation of structures, such as power line towers will cause a radio interference? If any significant radio interference is anticipated, are adequate measures considered?</li> <li>(d) Are the compensations for transmission wires given in accordance with the domestic law?</li> </ul>	N	<ul> <li>(a): Access to public services and traffic by the local people can be affected. However, the construction works will be done by humans at limited areas and in short-term. The adverse impact is not serious and is limited. Construction observers will direct the local people and traffic passing safely.</li> <li>(b): No significant adverse impact is expected on hazards and infectious diseases because no massive influx of workers is expected as most labours can be supplied locally for the small-scale projects and construction works by humans. However, HIV might increase because the districts' prevalent rates are already high. Both workers and local peoples will be sensitized.</li> <li>(c): The planned construction of the 33 kV distribution lines will not cause any radio interference which will negatively affect local people.</li> <li>(d): 33kV distribution lines will be installed within road reserve. The installation works will remove crops and the Project route was designed to avoid massive cultivation and tall/large trees as much as possible. However, if the crops and trees are removed by necessity, they will be compensated by REA using district compensation rates.</li> </ul>
(3) I	Heritage	(a) Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage? Are adequate measures considered to protect these sites in accordance with the country's laws?		(a) There are no prominent archaeological, historical, cultural or religious sites to consider at the Project sites. Two traditional shrines were identified but the lines are designed and will be installed at the opposite side of them.
(4) I	Landscape	(a) Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken?		(a): No significant impact is expected on landscape because there are no special natural and cultural landscapes around the

Category	Environmental Item	Main Check Items	Yes:Y No:N	
				project sites. However, some trees will be felled on the Project Route. The Project lines are designed and will be installed to avoid tall/large trees as much as possible. Trees felled by necessity are compensated by REA but it could deteriorate the vegetation and green landscape along the Project Route. Re-plantation at public space is proposed for mitigation.
	(5) Ethnic Minorities and Indigenous Peoples	<ul><li>(a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous peoples?</li><li>(b) Are all of the rights of ethnic minorities and indigenous peoples in relation to land and resources respected?</li></ul>		(a)(b): There are no settlements of ethnic minorities or indigenous peoples along the Project route.
	(6) Working Conditions	<ul> <li>(a) Is the project proponent not violating any laws and ordinances associated with the working conditions of the country which the project proponent should observe in the project?</li> <li>(b) Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials?</li> <li>(c) Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health program, and safety training (including traffic safety and public health) for workers etc.?</li> <li>(d) Are appropriate measures taken to ensure that security guards involved in the project not to violate safety of other individuals involved, or</li> </ul>	Y	<ul> <li>(a): All Policies, Laws, Regulations and ordinances were reviewed and the project is within the acceptable limits</li> <li>(b)-(d): Supervising consultant and contractor take responsible to ensure safe working conditions in accordance with contractor's construction manuals which are required in the contract in order to prevent accidents at work and to the local residents during construction period. Personal protective wear will be provided for all the workers during construction according to the labour laws of Uganda.</li> </ul>
5. Others	(1) Impacts During Construction	local residents?  (a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)?  (b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts?  (c) If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts?		(a)-(c): The main work will be the erection of electric poles and overhead cables. While a small crane will be used to install trances on the poles, the work relating to the electric poles and overhead cables will be manually conducted. As such, the impacts of the work on the natural environment, social environment and pollution will be minimal.
	(2) Monitoring	<ul> <li>(a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts?</li> <li>(b) What are the items, methods and frequencies of the monitoring program?</li> <li>(c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)?</li> <li>(d) Are any regulatory requirements pertaining to the monitoring report system identified, such</li> </ul>	Y	<ul> <li>(a) As part of the environmental assessment process, an Environmental Management &amp; Monitoring Plan was prepared in the Project Brief and implemented by REA.</li> <li>(b) The following items were agreed and will be included in the monitoring plan: Community meetings, Consent buildings with PAPs, Loss of crops, Trees Felled, Payment of compensation, Re-plantation of Trees and Sensitization. The other items including contractor's matters will also be comprised in the coordination with NEMA.</li> </ul>

Category	Environmental Item	Main Check Items	Yes:Y No:N	Confirmation of Environmental Considerations (Reasons for Yes/No, Mitigation Measures)
		as the format and frequency of reports from the proponent to the regulatory authorities?	Y	<ul> <li>(c) An organizational structure consists of the wayleaves officer, the environment officer and the auditor in REA. REA and Contractor shall make budgetary allocations towards all environmental programmes.</li> <li>(d) The environment officer of REA shall coordinate the production of internal monthly/quarterly reports for REA, and annual environmental audit report for submitting to NEMA.</li> </ul>
6. Note	Reference to Checklist for Other Sectors	(a) Where necessary, pertinent items described in the Road checklist should also be checked (e.g., projects including installation of electric transmission lines and/or electric distribution facilities).		(a): The items are irrelevant to the project as it only involves the project components consist of liner and limited areas, which are installations of distribution lines and is planned within the road reserve.
	Note on Using Environmental Checklist	(a) 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).		(a) The item is irrelevant to the Project as it only involves the project components consist of liner and limited areas, which are installations of distribution lines.