ANNEX 6

GCF/UNEP/EPA YELNYJGRAA

"Zie-leɛbo yelnyɔgre naŋ kyaara teŋgane a Gaana Sazu paaloŋ poɔ naŋ na soŋ ka a noba elɛdi yɛlɛ are soŋ"

A yenyograa na fu nan kyaare tengane ane a noba yele maaloo damannaa (ESAMF)

Noba zaa naŋ na baŋ o yɛlɛ.



United Nations Environment Programme

A fu (Executive Summary)

Koobo yeltarre toma a Gaana sazu paalon poo, koo poo, ba lezee-anaare zaa e la koorebilii nan man dele saamiibu ba koobo ene, ka ba ko a nye seemaa di, a tuuro ba saankommine yel-erre, ane yelpaaba bammo feele.

A uoni saŋa naŋ maŋ e wogi a Gaana sazu paaloŋ maŋ vɛŋ la ka bondirii ba pore. A zie naŋ maŋ tole yaga a Gaana sazu paaloŋ maŋ vɛŋ la ka koo ba gana a teŋɛŋ, ka a bare koo zaa nyunno aseŋ ŋa kolonne dampore ane bagbɛɛ. A ama meŋ la maŋ sonna ka a kooraa ne o dunni nyɛrɛ koo nyuuro. Ana meŋ la maŋ soŋ ka ba ko uoni saŋa gaadinni. A zie naŋ maŋ tole yaga ane a zieleɛbo faaloŋ mine maŋ vɛŋ la ka mobiri, dundulo ane bonvoba mine saana a seemaa. A la waana meŋ, a saa maŋ ta soga mi la yaga, ka kompie laare a Gaana sazu paaloŋ ziiri yaga, a saana boŋkoore, a koora noba, a saana sobie a loora deri. A kompie maŋ vɛŋ la ka bare ane dampore koo taabo ba degli, gbɛɛyaga, a dampore maŋ kyeɛ la ka a koo zaa puo gaa. A yelnyograa ŋa ananso la ka o soŋ ka a zieleɛbo faaloŋ bee awombu ŋmaa bare koorebilii naŋ be tenne naŋ be Gaana sazu poo, a kyɛ soŋ ka seemaa pore ane koobo yeltarre na naŋ sonna tembilii deme ba e-lɛ-di yɛlɛ.

A yelnyəraa na taaala yelzuri ata.

A danwee soba la ka a zieleebo duoro na maŋ bebe, a soŋ ka kooreba baŋ ware ane kompie ŋmeebo yele.

A ayi soba la ka ba nyoge zieleɛbo yelnyogre paaba naŋ sonna koobo ane koo nyoge-bimbu yɛlɛ naŋ na sonna uoni saŋa koobo, ane teŋgane zukaabo. Aseŋ, bare noɛ guubu, teere sɛlebo koobo teere sɛlebo naŋ na vɛŋ ka koola leɛ koŋkore, moo vũũ bakyommo yɛlɛ. A yɛlɛ ama zaa na soŋ la ka a teŋgane taa noo, ka koo maŋ gaŋ a bare poo kyɛ gu nobaboma ka kompie ta sãã a.

A yelnyograa na tona la bogra ata poo: a tembilii poo, zie na a yenaree naŋ na toŋ toma, a irigyinni poo, zie na ba naŋ na kaara saa waabo ŋmenaa ane saseɛ daabo yɛlɛ a Gaana sazu paaloŋ poo, a tuuro duoro ba naŋ na derɛ yire a Gaana kompare seŋ, a pãã de yelnyogre ba naŋ na nyoge a kyaara ware are bo ane kompie pogloo yɛlɛ a Gaana poo.

A tembilii poo, a desere tontoneba na maŋ nare la tonnoɛ ba naŋ natoŋ ane libiri lɛ ba naŋ na de toŋ a toma. Azuiŋ, ba na wuli la a desere yɛlɛ narebo tontoneba ka ba tigri ne bambo naŋ na soŋ ka a toma toŋ soŋ. A tembilii kooreba meŋ na zanne la yɛlɛ a wuli a kooreba karekyiri meŋ yɛlɛ ka batõo ŋmeɛrɛ a duoro yaara. A lɛ meŋ na soŋ la ka yelpaaba na ba naŋ zanne, ka ba maŋ tõo manne a kotaa ka ba zaa baŋ a. A lɛ na soŋ la ka a yelnyograa nyɛrɛ eebo a kooreba zie.

North East, Upper East ane Upper West irigyinni poo la ka a yelnyograa na ton toma a Gaana poo. Deserre anii mine la ka ba kyõ-iri ka a yɛlɛ na e bonso, a zieleɛbo faalon maŋ taa la awombu yaga ba zie. A deserre anii la ama: Jirapa, lambusse, lawra, ane Wa West naŋ be Upper West paalon poo. Binduuri ane Garu, naŋ be Upper East paalon poo ane East Mamprusi ane Yunyoo-Nasuam desere naŋ be North East paalon poo.

A deserre anii ama kaŋa zaa poo, a yelnyograa na maŋ soŋ la ka koobo ane ba e-lɛ-di yeltarre nare tenne koo ane lezare poo yuomo ayopoi vuo poo. A noba na maŋ nyɛrɛ la dorebo ane yelwulli a kyaara ba koobo yɛlɛ a deserre anii ama poo.

Toma deme na naŋ kaara te tengane zu guubu yɛlɛ ka ba boolo ŋmaalɛ ka EPA la na so a yɛlɛ eebo faŋa. Seemaa ne koobo toma deme (MFSA) ane saa karekyiri (Ghana Meteorological Service) ane water resources commission la na maŋ soŋ ka koorebilii naŋ be a Gaana sazu paaloŋ poo maŋ tõo ko a nyɛ seemaa naŋ na soŋ ka ba e-lɛ-di yɛlɛ taa nimiri. A teŋgbane ane a noba yɛlɛ maaloo yelnyograa ŋa (ESMF) na wuli la sobie na ba naŋ na tu a tõo peɛre nyɛ ziiri na nan sen ne sommo yaga. A la wuli toma ziiri na ane bogre na ba nan na tu ka ba awombu nmaa bare. UNEP toma lombori na ba nan boola Environmental andSocial Sustainability Frame Work la da nare a yelnyograa na yele a tuuro ba tonnoore na ba nan boola Safeguarding Risk Identification Form (SRIF) a nye ka o poo la moderate risk bee category B yelnyore ene. A category B yelnyograa asen a UNEP ane GCF nan gyieli nye le, wuli ka o ba man taa faalon yaga a kyaara a tengane ane a noba eledi yeltarre maaloo ena a kyɛ la baŋ soŋ leɛre faaloŋ na naŋ da kpɛ a teŋgbane ka o leɛ are o gbɛɛŋ. Ziena a awombu naŋ be la ka ba maŋ kyõ-iri a nyoge a yele be kye ba man pogle la faalon na nan kpe a tuuro yele ba nan nare velaa, a tu a sobi sonne ane esonne. Yele ba nan na e a tuuro a ESMF yelnyograa na man soman a na tõo pogle awombu zaa, a zuo a zaa ba ne neezaa nu nan poo a yelnyograa taa yelbawontaa, yelnyogre nan na maala ba yele ane yelnyogre nan kyaare a yelnyograa ane o toma yeltuuri. Ama, aneazaa ka ba man dan peere la yelwonni nan be yelnyograa, kye a yele eebo zie ba nan man peere la yele ka a eebo na kyogi ne a GCF damannaa na ba nan boola Environmental and Social Safeguards (ESS). A le eebo ananso la ka ba tõo dan nyoge yelnyogre nan na pogle yelkpeeraa zaa nan na wa kpe a yele eebo sana. A tembilii noba nu na man poo la a yele narebo ba boola la a yeli na ka Indigenous Peoples Plan (IPP). Yele na ba naŋ wa pelepoo sage na maŋ nyε la eebo a yelnyɔgraa yeltarre eebo eŋε.

A yi lɛ puoriŋ, a yeli kaŋa naŋ seŋ ne eebo la ka ba wa peɛre yɛlɛ mine a teŋgane eŋɛŋ, Initial Environmental Examination (IEE) kyɛ pãã wa tõɔ biŋ mansiŋ kaŋa ba naŋ boola S-band rader, a tuuro lɛ a Gaana begre naŋ wuli ane AE meŋ yeltarre guubu begre. Ka a lɛŋ wa e baare, ba pãã na wuli la ka a yelpeɛre mine ba naŋ boola ESIA ane ESMP meŋ na eŋ bee ka a koŋ e. A yelnyɔgraa na maŋ taa la damannee mine ba naŋ na de kyagra ne lɛ a tonnoɔre kaŋazaa yɛlɛ naŋ kyɛnɛ.

A EPA naŋ la so a yelnyograa yɛlɛ zaa faŋa na, bana la seŋ ka ba kaa ka yeli zaa naŋ erɛ aseŋ lɛ a naŋ erɛ a ESMF poo, sereŋ tu a tuubu a yelnyograa yeltarre zaa poo. A EPA a laŋ ne UNEP la baŋeneba na naŋ na dora noba a kyaare a teŋgane zukaabo ane yɛlɛ naŋ erɛ o eŋɛ. A la waana meŋ, konteraata zaa naŋ da boma bee toŋ toma a yelnyograa eŋɛ, a EPA la na daŋ peɛre o a nyɛ ka o toma na kyogi ne la a ESMF kyɛ ka ba pãã k'o sori ka o toŋ a toma.

Ziiri na a toma naŋ na toŋ, ba iri la District Environmental Management Committees (DEMCs) a tuuro a kooreba karekyiri zie. Ba toma na la ka ba pigre lɛ a toma naŋ tona, a sɛgrɛ ba yelnyogerre na kora a nembɛrɛ. A yi lɛ puoriŋ noba mine meŋ na la baŋ kaa nyɛ la ba meŋ yelnyɛrre na ka a sereŋ kyogi ne la ESMF begre bee. A DEMCs na maŋ de la yelwulli mine wuli noba na zaa nu naŋ poɔ a yelnyograa eŋɛ ka lɛ soŋ ka neŋgyamaa baŋ a ESMF begɛ, a tuuro a.

Potential environmental/social impact	Avoidance / mitigation measure	Relevant national regulations/policies applicable	Responsibility	Cost
Requirements for private land use (SS5). Relevant for activities under Output 1	 The project will in all instances seek to use government owned land for the installation of monitoring equipment. Any requirement for private land, or the installation of infrastructure on pastoralist grazing areas usage will be negotiated in good faith and secured via a process aligned with free-prior and informed consent (FPIC). No monitoring equipment will be installed on land that is used or may be used for productive purposes in the future as per community input. Any land-use/access agreements will be recorded via a shared land-use agreement or record of donation and submitted to the GCF. No activities that may impede existing land-use practices, or access to livelihood resources, or result in land-use conflict will be supported 	Land Act, 2020 Office of the Administrator of Stool Lands Act, 1994 Forestry Commission Act, 1999 Customary Land Secretariat Regulations, 2019 Local Government Act, 2016 (Act 936) Environmental Protection Agency Act, 1994 Land Use and Spatial Planning Act, 2016	MLNR – EPA Office of the Administrator of Stool Lands DA's Traditional Authorities (TAs)	Salaries
Impacts on marginal groups, Indigenous Peoples or inequitable distribution of project benefits (SS5; SS7) Relevant to activities under Output 1, Output 2 and Output 3	all on-the-ground activities, to ensure that these activities are implemented in a manner that is consistent with current local practices	Land Act, 2020 Environmental Protection Agency Act, 1994 National Climate Change Policy Local Governance Act, 2016 Customary Land Secretariat Regulations, 2019	MLNR – EPA DA's Traditional Authorities (TAs) ESS focal points (district level and national level roles)	Salaries Additional budget included under the IPP implementation (\$10,000 annual). GRM Budget (\$5,000 annual).

Table 1. Mitigation measures for potential environmental and social safeguard impacts.

	 The project will ensure that FPIC is gained prior to the installation of any infrastructure on land used for grazing by pastoralists or Indigenous Peoples. The IPP will ensure the project will utilises FPIC process for these engagements with Indigenous Peoples and ensure FPIC engagement reports and agreements are available for submission to the GCF. The project will include an accessible GRM, with dedicated considerations for access for Indigenous Peoples, vulnerable groups and a dedicated SEAH grievance channel. Project staff and contractors will be required to sign and abide by a code of conduct. Project staff and contractors will be sensitized to SEAH risk management. 	Chieftaincy Act, 2008 Right to Information Act, 2019 Development Planning Systems Act, 1994		
Construction related risks, including those pertaining to biodiversity impacts, health and safety and labour practices (SS1; SS3; SS4; SS8) Relevant for activities under Outputs 1, 2 and 3	 Environmental and Social Screenings will be undertaken for each selected site and will consider risks covered under UNEPs Safeguards Standards. If required, an IEE will be undertaken (in compliance with national regulations and appropriate management plans implemented. All construction works will utilise local labour if labour is required. Construction standards will comply with national regulation, including for minimum safety standards. All procurement will be implemented according to UNEP policies and national regulations, ensuring no child labour, forced 	Land Act, 2020 Environmental Protection Agency Act, 1994 Building Regulations, 1996 Land Use and Spatial Planning Act, 2016 Labour Act, 2003 Public Procurement Act, 2003 Occupational Health and Safety Policy	MLNR – EPA DA's Traditional Authorities (TAs) ESS focal points (district level and national level roles)	Salaries Discretionary Safeguards fund (estimated at \$60,000 across entire project ¹)

¹ For ESMF updates, screenings, IEA and any need for specialist studies, ESIA's or development of capacity building material – budgeted at \$10,000 annually in year 1 – 5 with half budget in year 6 and 7.

	 labour or coercive labour practices occur under the project. Project sites will be subject to regular monitoring and spot checks by EPA. Contractors and workers will be formally contracted and required to sign and abide by a code of conduct. Boreholes, when installed will consider appropriate siting to reduce likelihood of contamination and potential water quality issues (in cases where communities will use boreholes for drinking water). Communities receiving boreholes will receive training on proper operation and management to reduce risks of contamination or vector/water borne disease. 	Ghana Building Code, 2018		
Introduction of harmful species including genetically modified organisms (GMOs) (SS1) Relevant for activities under Output 2 and Output 3	 All species to be included in the menu of interventions — including any proposed genetically modified organisms (GMOs) — will be screened (based on behaviour in the northern savanna and similar environments) to ensure that they are not invasive, highly water demanding, likely to negatively impact other crops grown nearby, or require substantial application of fertiliser or pesticides. Mixed farming systems will be encouraged, as opposed to extensive mono-cropping, to reduce pest and market vulnerability. If GMOs are proposed, their use will be subject to regulatory review in accordance with Ghana's national biosafety procedures 	Forestry Commission Act, 1999 Environmental Protection Agency Act, 1994 The Tree Crops Policy Biosafety Act, 2011 (Act 831)	Forestry Commission MLNR – EPA	Staff Salaries (co- finance) ²

² Under Activity 2.2, existing government staff working on the project (salaries paid by in-kind contributions) will review all interventions proposed in the individual CCAPs against evaluation criteria set by DEMCs, REMCs, the PMU and Directorate of Crop services. One of the evaluation criteria will be to ensure that the proposed interventions do not violate any of the social and environmental safeguards put in place by the proposed project. The reviews will take place for the first 5 years of the project as CCAPs are developed in each of the beneficiary communities. This cost is captured in budget note B16.

	and with due regard to the Cartagena Protocol on Biosafety.			
Habitat conversion (SS1) Relevant for activities under Output 2 and Output 3	 Agricultural EbA interventions will only be supported on existing farmlands. The project will not finance conversion of natural habitats to cropland or plantation, nor directly finance large-scale irrigation. The project will finance improved natural habitat management and improved fire management. The project excludes the development of monocropping systems and will ensure that any perennial crops (e.g. cashew, mango) are integrated into diversified or mixed cropping systems. Training and extension support provided under the project will promote intercropping, agroforestry, and climate-resilient diversified farming systems, in line with the project's exclusion of monocropping. 	Forestry Commission Act, 1999 Land Use and Spatial Planning Act 2016 The Office of the Administrator of Stool Lands Act 1994 Environmental Protection Agency Act 1994 Ghana National Fire Service Act, 1997 Lands Commission Act, 2008 The National Environment Policy, 2014	Forestry Commission MLNR – EPA Office of the Administrator of Stool Lands	Staff Salaries ³
Overly rigorous fire suppression (SS1) <i>Relevant for activities under Output 3</i>	 The project will support improved fire management through controlled early burning, rather than outright fire suppression. Village fire volunteers may receive training and basic equipment but will not be 	Ghana National Fire Service Act, 1997 National Wildfire Management Policy, 2006	MLNR – EPA Ghana National Fire Services (NFS) DA's	**\$19,200 per year for the first five years of the project (Included in project activity budget) ⁴

³ Under Activity 2.2, existing government staff working on the project (salaries paid by in-kind contributions) will review all interventions proposed in the individual CCAPs against evaluation criteria set by DEMCs, REMCs, the PMU and Directorate of Crop services. One of the evaluation criteria will be to ensure that the proposed interventions do not violate any of the social and environmental safeguards put in place by the proposed project. The reviews will take place for the first 5 years of the project as CCAPs are developed in each of the beneficiary communities. This cost is captured in budget note B16.

⁴ Under Activity 2.1, target communities will be trained on climate change impacts and the menu of adaptation interventions. Within this activity, target communities will be trained on appropriate fire management. This training will take place for the first five years of the project. This cost is captured in budget note C7.

	encouraged to directly tackle large and dangerous fires.		Traditional Authorities (TAs)	
Harvesting of wild species (SS1)	 Increased extractive use of natural resources will only be supported where populations are sufficiently robust, and 	Environmental Protection Agency Act, 1994	MLNR – EPA Forestry Commission	**\$24,000 per year⁵
Relevant for activities under Output 2 and Output 3	subject to community monitoring systems.Interventions to support harvesting of wild species will only be supported where this is	Forestry Commission Act, 1999	,	
	traditional activity and only on land in which the community has existing access or tenure (for example within community managed forestry plots).	Ghana Food and Agriculture Sector Development Policy (FASDEP II), 2007		
		Ghana Forest and Wildlife Policy, 2012		
On-farm earthworks (SS1; SS4)	 Only as part of EbA interventions selected by landowners and users. 	Lands Commission Act, 2008	MLNR – EPA	**\$80,000 per year ⁶
	 Only within existing fields, or in near-field 	T I I (0) ()	DA's	
Relevant for activities under Output 3	sites involving habitats that are degraded and/or common within the agricultural landscape.	The Lands (Statutory Wayleaves) Act, 1963	DDoA	
	 Water-harvesting structures (e.g. dugouts) may be constructed along ephemeral streams or eroded drainage lines, but not 	Environmental Protection Agency Act, 1994	Office of the Administrator of Stool Lands	
	within well-vegetated, perennial watercourses.	Local Government Act, 2016	Lands	
	 Training of farmers on the use of climate decision-support system will include provisions on how to utilise the tools in a sustainable and responsible manner that will 	The Office of the Administrator of Stool Lands Act 1994		

⁵ Under Activity 4.1, local intervention monitor will be designated in each target community to monitor progress and the socio-ecological impacts of the climate change adaptation interventions. Within this monitoring framework, the intervention monitors will monitor the populations of species targeted for NTFPs to ensure that extraction rates are sustainable. Monitoring will take place throughout the lifespan of the project. This cost is captured in budget note E3.

⁶Under Activity 2.3, national consultants will provide technical assistance in the implementation and maintenance of adaptation interventions. These consultants may be drawn from government departments (e.g. department of water to oversee riverbank stabilisation interventions), academia or specialised research institutes. Amongst other technical advice, these consultants will provide specialised guidance to ensure that interventions adhere to all relevant environmental and social safeguards and standards. This will take place throughout the lifespan of the project as interventions are implemented in different target communities This cost is captured in budget note B23.

	 not result in negative impacts to groundwater resources, the balance of surface water and water quality. Only local-labour construction techniques will be use, no work camps will be established. If any heavy equipment is required, it must be used and under qualified supervision. Earthworks must be conducted during the dry season, as required For excavations: i) spoil should be used for bunding if possible, or otherwise left in low mounds (<1m height) at least 10m from water courses; and ii) topsoil must be piled separately and used to cover spoil. Chance finds of artefacts suspected to have cultural or historical value will result in: i) immediate cessation of work and notification of a project officer; ii) inspection by TCO to determine if genuine artefact; and if so iii) notification of Ministry of Chieftaincy & Culture to determine appropriate steps before work may continue. Code of conduct for all contractors and project workers 	The Ghana Strategic Investment Framework for Sustainable Land Management (GSIF), 2011– 2025		
Increased use of agricultural chemicals (SS3; SS4) Relevant for activities under Output 2	 Species dependent on high pesticide or fertiliser use will not be introduced. The project will not finance pesticides. Integrated pest and nutrient management approaches will be included within EbA interventions and capacity building programs as appropriate. 	Part Two of the Environmental Protection Agency Act, 1994 Ghana Food and Agriculture Sector Development Policy (FASDEP II), 2007	MLNR – EPA DDoA	**\$47,295 per year for the first five years of the project provided by in-kind contributions ⁷

⁷ Under Activity 2.2, existing government staff working on the project (salaries paid by in-kind contributions) will review all interventions proposed in the individual CCAPs against evaluation criteria set by DEMCs, REMCs, the PMU and Directorate of Crop services. One of the evaluation criteria will be to ensure that the proposed interventions do not violate any of the social and environmental safeguards put in place by the proposed project. The reviews will take place for the first 5 years of the project as CCAPs are developed in each of the beneficiary communities. This cost is captured in budget note B16.

Increased demand for irrigation (SS1; SS3) Relevant for activities under Output 2	 The project will not finance large-scale or diesel pump irrigation. The project may finance improvement of existing irrigation schemes or those being introduced by other projects, e.g. through application of more efficient technologies such as drip or pot irrigation, or through capacity building of water user groups for better management and maintenance of irrigation systems, and resolution of water use disputes. 	Environmental Protection Agency Act, 1994 Water Resources Commission (WRC) Act, 1996 National Action Programme to Combat Drought and Desertification The Ghana Irrigation Policy, 2011	DDoA GIDA MOFA – Agricultural Extension Services Directorate MOFA – Women in Food and Agricultural Development Directorate	**\$80,000 per year ⁸
Pollution and hazardous waste risks from small- scale processing by beneficiaries (SS3; SS4) Relevant for activities under Output 2	 Provide training to beneficiaries on safe handling, storage, and disposal of materials used in small-scale processing activities (e.g. caustic agents in soapmaking, by-products from shea processing). Disseminate good practice guidance on pollution prevention, resource efficiency, and environmentally sound waste disposal tailored to common livelihood activities. Promote the use of low-input, low-pollution processing techniques through technical support and extension services. 	Environmental Protection Agency Act, 1994	EPA MOFA – Agricultural Extension Services Directorate MOFA – Women in Food and Agricultural Development Directorate	Staff Salaries (co- finance)

⁸ Under Activity 2.3, national consultants will provide technical assistance in the implementation and maintenance of adaptation interventions. These consultants may be drawn from government departments (e.g. department of water to oversee riverbank stabilisation interventions), academia or specialised research institutes. Amongst other technical advice, these consultants will provide specialised guidance to ensure that interventions adhere to all relevant environmental and social safeguards and standards. This will take place throughout the lifespan of the project as interventions are implemented in different target communities This cost is captured in budget note B23.