

Environmental Monitoring and Mitigation Plan						
Activity Type:	Commodity Procurement					
Key Components:	Procurement of equipment and supplies as part of a comprehensive activity that is directly managed by Chemonics or through its IRP grantee. Commodities that may have a moderate impact on the environment due to their greenhouse gas emissions; noise disturbances; oils/coolants/anti-freeze, or other chemicals that could leak and contaminate soil and water, etc.; medical equipment that may generate medical waste or harmful byproducts; and excavation or earth-moving equipment that break the soil arrangement/profile and could disturb habitats for native flora and fauna. These commodities include but are not limited to: vehicles used in service delivery (garbage trucks, ambulances), heavy equipment (bulldozers, backhoes, skid steer loaders), generators, industrial refrigeration and ice-making equipment, medical supplies (e.g. specimen cups and surgical tools) that require sterilization or incineration, and medical equipment (x-ray machines, ultrasound machines, centrifuges, etc.) The Program Compliance Officer (PCO) provides oversight for environmental compliance during the full activity life-cycle: planning and design (P&D), construction (C), or operations and maintenance (O&M).					
Scale:	Commodity procurement covers a range of sectors and potential geographic locations.					
Ambient Environment:	There will be varying applications and locations due to the diversity of commodities procured. Commodities will be used in urban, peri-urban, and rural locations.					
Potential Environmental Impact	Mitigation Measure(s)	Phase of Mitigation Measure Planning and Design (P&D), Construction (C), Operation and Management (O&M)	Indicator	Responsible Authority	Timing	Priority of Mitigation Measure 1 = High, 2 = Medium, 3 = Low
1. Improper storage, management, and disposal of damaged or expired commodities can harm humans and the environment or be ineffective for the intended use. Risk of diversion of commodities for uncontrolled or unintended use.	1.1: IRP will initially screen the grant proposal using the Environmental Review Form (ERF) to identify all activities to be carried out by the grantee. The ERF will include a site map of warehouse or other storage sites, if applicable. Visit will review site security, control measures for storms and flooding, back-up utilities services, capacity for storage and handling of hazardous materials (if applicable).	P&D	1.1: IRP-approved Environmental Determination Form (ERF)	IRP	IRP-approved ERF	1
	1.2: Prepare a waste management plan/procedure, appropriate for the size and type of procurement storage and distribution activity. The plan will be developed using IRP guidelines for the proper disposal of damaged and/or expired commodities, including livestock. Activity will use approved disposal site(s).	P&D, O&M	1.2: IRP-approved Waste Management Plan/procedure that covers commodities procured, stored and managed by the IRP Commodities program.	Chemonics is conducting the IRP commodities procurement and coordinates waste management with the grantee on an activity-by-activity basis.	WMP prepared before the procurement and/or importation of commodities.	1
	1.3: Prepare commodity supply plan that includes quantification analysis to determine supply needs. Coordinate forecasting and supply planning activities to meet existing needs and minimize the risk of stockouts or surplus of commodities. Prepare and manage inventory system that documents expiration and storage requirements (temperature) of pharmaceutical commodities. Document how to reduce or eliminate risk of diversion of commodities for uncontrolled or unintended use.		1.3: IRP-approved supply plan and inventory system. IRP-approved process for storage practices. Train workers on the inventory and storage procedures. Manage inventory records of commodities and conduct physical inventory. Inventory system documented and records maintained.	Chemonics is conducting the IRP commodities procurement and coordinates waste management with the grantee on an activity-by-activity basis.	Plan and inventory system should be in place prior to procurement of commodities.	1
2. Improper handling and transportation of commodities can result in potential occupational health and safety injuries.	2.1: Develop and implement health and safety plan/procedures (HASP) for commodity handling and transportation. Workers are provided with PPE and instructed on use, trained on safe use of equipment, licensed and instructed on requirements for reporting work-related violations.	P&D, C, O&M	2.1: IRP-approved HASP based on IRP HASP Guidelines for the handling and transporting commodities by vehicle (if applicable), training on PPE, occupational health and safety measures for storage facilities, and clean-up kit for potentially hazardous materials carried in the car with commodities transport. When responsible for driving, driver will be trained on safe handling of commodities and how to clean up spills from potentially toxic materials. Clean up kit will be kept in the vehicle.	Chemonics IRP manages the procurement and importation of livestock.	HASP prepared based on IRP guidelines before activity begins and monitored throughout implementation.	1

3. Importation and introduction of livestock, seed and crops can expose local livestock to disease and introduce insects, harmful micro-organisms and other invasive species.	3.1: IRP procurements for livestock will use vetted suppliers and agents with verifiable references.	P&D and O&M	3.1: IRP-approved procurements with documentation of supplier references.	Chemonics IRP manages the procurement and importation of livestock	IRP will obtain an agricultural waiver from the Iraqi government and obtain required importation certifications prior to initiating importation.	1
	3.2: IRP has obtained a partial agricultural waiver from the Iraqi government. For procurement not covered by the waiver, use vetted sources, follow Iraqi phytosanitation requirements, or in their absence, internationally-recognized best practices and USAID guidelines.		3.2: IRP-approved procurements with crop, seed and livestock importation certifications from vetted suppliers.			1
4. Sustainability and conservation through procurement	4.1: Procurement of items that have emissions, fuel consumption, energy consumption, toxicity and other environmental criteria will be screened through a market survey to determine commodities that meet their intended use in the context of environmental performance, as feasible. <ul style="list-style-type: none"> Determine that item complies with Iraqi, or in their absence, international best practices and USAID guidelines. (IRP procurement will strive to match or improve environmental performance in the context of cost and availability.) 	P&D	4.1: Review of procurement items emissions, fuel consumption, toxicity and other environmental factors in context of Iraqi environmental or international standards in their absence.	IRP GMU and grantee	Review or market survey prior to procurement	3
5. <i>Climate risk:</i> Construction workers may face increased risk of heat exhaustion or impacts of climate-related extreme events (e.g., heavy rain storms, flooding, dust storms or wildfires).	5.1: IRP HASP will provide workers with a work schedule that allows for breaks and water consumption at regular intervals to combat heat stress.	P&D, C, O&M	5.1: Documentation of a process of providing breaks.	IRP GMU and grantee	Throughout construction period	2
	5.2: Ensure emergency plans are in place (and well communicated to crews) to respond to climate-related extreme events.		5.2: Documented emergency plans posted at the work site.		Throughout construction period	2
6. <i>Climate risk :</i> Climate-related precipitation and storm events (e.g. storms, wildfires, extreme heat and flooding, landslides, erosion) can reduce the durability of project structures and transportation systems necessary to access the activity structures.	6.1: IRP-approved implementation plan for the storage of project commodities accounts for increased temperature trends and storm events based on climate trends. Site is selected to avoid issues with sea-level rise and flooding potential.	P&D	6.1: IRP-approved storage location(s) and activity plan that incorporates climate considerations in structure resistance to temperature and storm events. As feasible, storage site avoids areas susceptible to sea-level rise and flooding.	Chemonics IRP manages the procurement and importation of livestock	IRP-approved site prior to initiating the activity procurements.	2
Acronyms						
Planning and design		P&D				
Construction		C				
Operations and maintenance		O&M				
Environmental Review Form		ERF				
Implementing partner (grantee)		IP				
Project development officer		PDO				
Storm water pollution prevention plan		SWPP				
Health and safety plan		HASP				
Waste management plan		WMP				
World Health Organization		WHO				
Program Compliance Officer		PCO				
Subcontracts and grants manager		SGM				