

Environmental Mitigation and Monitoring Plans

Feed the Future Innovation Lab for Sustainable Intensification (SIIL)

(AID-OAA-L-14-0006)

Summary of Class of Activities and Determination Initial Environmental Examination (IEE)

Class of Activities	Desktop studies, data analysis, office work, workshops and meetings.	Aggregation of records and data.	Institutional or collective capacity building among advanced degree candidates.	Surveys, focus groups, field days, and meetings of/with stakeholders.	Laboratory or contained greenhouse-based research.	Conducting applied research not exceeding 4 ha in single location and <u>NOT</u> involving support for procurement or use of chemical pesticides or fertilizers.	Conducting applied research not exceeding 4 ha in a single location that <u>DOES</u> involve the procurement or use of chemical pesticides or fertilizers.	Conducting applied research exceeding 4 ha in a single location.	Conducting applied research with microbial inoculants.	All other activities, within the scope of the Technical Description in the SIIL program award document.
Determination	Categorical exclusion	Categorical exclusion	Categorical exclusion	Categorical exclusion	Categorical exclusion	Categorical exclusion	Negative Determination subject to the conditions	Negative Determination subject to the conditions	Negative Determination subject to the conditions	Negative Determination subject to the conditions

Field Based Research (4 ha less / potential pesticides & fertilizer use)						
Activity	Resources	IEE Condition	Mitigation	Monitoring	Timeline	Responsibility (CoPI, PI, RC/CC, ME)
Conducting applied research on research stations not exceeding 4 ha in a single location and DOES involve use of pesticides and fertilizer.	www.usaidgem.org/sectorguidelines.htm http://www.usaid.gov/sites/default/files/documents/2151/regs/216.pdf http://www.encapafrica.org/EGSSAA/saferpesticides.pdf	<p>Appropriate pesticide and/or fertilizer use protocols to safeguard the health of research personnel and to protect local ecosystems are developed and implemented, based on toxicological and environmental data for the proposed pesticides or fertilizers. Such safeguards will address pesticide storage, handling and application, including the use of Personal Protective Equipment (PPE), clean-up and disposal.</p> <p>Pesticide-treated crops will not be used for human or animal consumption. (If crops are used for consumption, then this activity may be subject to development of a PERSUAP)</p>	<p>Work with national research partners to strengthen their existing pesticide and fertilizer chain protocols (selection, procurement, storage, application, and disposal).</p>	<p>Document (upload) existing regional and/or national pesticide/fertilizer protocols where relevant.</p>	FY16 and ongoing	RC/CC, CoPI, PI
	<p>Pesticide use – IPM and Safer Pesticide Use will be followed as outlined in EGSSAA Chapters 12 and 13, found at:</p> <p>http://www.encapafrica.org/egssaa.htm.</p> <p>http://www.codexalimentarius.org/</p>		<p>Work with national research partners to strengthen health and safety of their technical staff with use of (Personal Protective Equipment – PPE).</p>	<p>Document/upload training to technical staff involved in field application to safeguard health of research personnel & quality of the local environment, as well as storage and disposal techniques.</p>	FY16 and ongoing	RC/CC, CoPI, PI
			<p>Work with national research partners to strengthen fertilizer better practice in line with regional and national protocols.</p>	<p>Document (upload) existing regional and/or national fertilizer protocols. USAID Guidelines for Small-Scale Activities in Africa (EGSSAA), Chapters 1 and 16, respectively, on Agriculture and Irrigation and Water Supply and Sanitation, found at http://www.encapafrica.org/egssaa.htm will be referred to as necessary.</p>	FY16 and ongoing	RC/CC, CoPI, PI

Field Based Research (exceeding 4 ha / potential pesticides & fertilizer use)

Activity	Resources	IEE Condition	Mitigation	Monitoring	Timeline	Responsibility (CoPI, PI, RC/CC, ME)
<p>Conducting applied research exceeding 4 ha in a single location.</p>	<p>www.usaidgem.org/sectorguidelines.htm</p> <p>http://www.usaid.gov/sites/default/files/documents/2151/reg216.pdf</p> <p>http://www.encapafrica.org/EGSSAA/saferpesticides.pdf</p> <p>Pesticide use – IPM and Safer Pesticide Use will be followed as outlined in EGSSAA Chapters 12 and 13, found at: http://www.encapafrica.org/egsaa.htm.</p> <p>http://www.codexalimentarius.org/</p>	<p>Implementation of environmental best management practices (BMPs) for agriculture and irrigation. Such BMPs are available from USAID in the Sector Environmental Guidelines</p> <p>The procurement or use, promotion of, or training in use of pesticides, including herbicides and fungicides, is disallowed until such time that a Pesticide Evaluation Report and Safer Use Action Plan (PERSUAP) is completed pursuant to 22CFR Regulation 216.3 (b) – USAID Pesticide Procedures – and duly approved.</p>	<p>Ensure pesticides are approved and registered as per national and / or international standards.</p> <p>Ensure procedures to ensure health and safety of workers with use of (Personal Protective Equipment – PPE) as well as measures to protect the environment.</p> <p>Development of a PERSUAP if the procurement or use of pesticides, including herbicides and fungicides.</p> <p>Fertilizer use – Best practices will be followed as outlined in USAID’s Environmental Guidelines for Small-Scale Activities in Africa (EGSSAA), Chapters 1 and 16, respectively, on Agriculture and Irrigation and Water Supply and Sanitation, found at http://www.encapafrica.org/egsaa.htm.</p>	<p>Document (upload) specific pesticide label and use.</p> <p>Document training to workers involved in field application to safeguard health of research personnel & quality of the local environment, as well as storage and disposal techniques.</p> <p>Monitor the implementation of the PERSUAP through annual site visits.</p> <p>Document training to staff on soil testing to ensure more specific and appropriate levels of fertilizer use.</p>	<p>If applicable, submit during FY16</p> <p>This training should be completed cooperatively by RC/CC and PI/CoPI. A Support Visit report should be submitted after in-country training.</p> <p>RC/CC will conduct monitoring visits to all applicable institutions on a yearly basis and submit report.</p> <p>This training should be completed yearly by RC/CC. A Support Visit report should be submitted after in-country training.</p>	<p>PI, CoPI</p> <p>PI, CoPI, RC/CC</p> <p>RC/CC</p> <p>RC/CC</p>

Applied Research with Microbial Inoculants						
Activity	Resources	IEE Condition	Mitigation	Monitoring	Timeline	Responsibility (CoPI, PI, RC/CC, ME)
Conducting applied research with microbial inoculants.	www.usaidgems.org/sectorguidelines.htm	Compliance with host country phytosanitary and import regulations for inoculum.	Research and upload existing regional and country phytosanitary standards and permits.	Upload to reporting hub under EMMP module the record of standards and permits.	FY16 and ongoing	RC/CC, PI
		Procurement and provision of high-quality inoculum (quality certified to a recognized international standard) in a sterile carrier.	Research of high-quality inoculum available and selection of appropriate item.	Ensure purchase from a credible supplier of certified inoculum that complies to international standards.	FY16 and ongoing	ME, RC/CC, PI
		No release of genetically modified strains or strains selected for antibiotic resistance.	The SIIL ME will work with PIs to ensure that strains are compliant with specified condition.	If research requires use of genetically modified strains or strains selected for antibiotic resistance, the SIIL ME will seek advice from USAID and national partners prior to start of research activities.	As relevant	ME, PI
		Microbial strains must be nitrogen-fixing, root-nodulating, and non-pathogenic.	The SIIL ME will work with PIs to ensure that strains are compliant with specified condition.	If research requires use of root node, pathogenic strains, the SIIL ME will seek advice from USAID and national partners prior to start of research activities.	As relevant	ME, PI