

Exercise: EMMP Reporting and Verification—EMMP Excerpt

EMMP for Project: Kilombero Rice and Maize Production (KRAMP)

Person Responsible for Overseeing EMMP: M&E Specialist

Component 1: Establishment of irrigation infrastructure			
KRAMP will design and construct an interconnected series of medium-scale irrigation schemes to improve food security and increase smallholder farm incomes for at-risk communities in Kilombero District. Primary surface water diversion from Kilombero River will include earthworks and concrete weir diversion with main unlined canal serving recipient communities. Infrastructure in recipient communities will include secondary control structures, drainage, and on-farm access roads.			
EA/IEE Conditions:	Mitigation Measures	Monitoring	Timing and Responsible Parties
Diversion (or abstraction) of water from Kilombero River will not exceed 10 percent of total flow volume on month-to-month basis.	Install measurement devices and implement operating procedures to continually assess river flow.	Visual inspection of measurement devices. Reports on river flow data recorded at project office and submitted to District Agriculture Officer.	Visual inspections completed not less than once a week by principal Project Engineer. Reports recorded and submitted on weekly basis.
	Develop and implement seasonal forecasting and/or models to account for variations in river flow to proactively plan for and manage water allocation.	Two-week river flow forecasts recorded at project office and submitted to District Agriculture Officer.	Forecasts recorded and submitted by principal Project Engineer on weekly basis.
Siting and construction of primary diversion/weir will conform to BMPs	Hire only certified contractors for construction of the weir and related infrastructure at primary diversion.	Verify validity of government-issued certification.	Project Contracts Manager to verify through tender process and prior to issuance of contract.
Ensure regular maintenance of secondary control structures and on-farm access roads.	Form and train community-based teams to provide ongoing maintenance of local irrigation-related infrastructure.	Verify function of community-based teams and training in sound maintenance practices. Conduct spot-checks to confirm effective maintenance practices.	Community Outreach manager to meet with/observe teams not less than quarterly. Unannounced spot checks not less than quarterly.
Component 2: Farmer technical assistance and training			
KRAMP will provide participating farmers with training and technical assistance in the use of agricultural inputs to increase production in concert with available irrigation (e.g., fertilizer, improved seeds varieties, etc.), and promote climate-resilient practices.			
IEE Conditions	Mitigation Measures	Monitoring	Timing and Responsible Parties
Fertilizer type will be selected for promotion and/or use based on local soil analysis and crop; farmer training must conform to BMPs.	Conduct necessary soil sampling and analysis for farmers volunteering to receive technical assistance and training and who will have access to irrigation.	Results of soil analyses not already available will be recorded at the project office and provided to the District Agriculture Officer.	Reports recorded and submitted by Extension Officers on ongoing basis.
	Train farmers in sustainable, safe use of appropriate fertilizers to avoid overuse (e.g., nutrient loading) and protect soil health.	Observe training delivery for consistency with BMPs. Assess water quality of agricultural run-off.	Project Engineer to observe training on semi-annual basis
All farmer training efforts will integrate key themes of climate-smart agriculture (CSA).	Adapt CSA-related principles and themes for consumption by beneficiary farmers, including preparation of written materials in local language and development of illustrated promotional materials.	Survey trained farmers to determine level of awareness of CSA-related techniques and practices. Spot checks of participating farmer fields.	Community Outreach manager to complete survey as part of project mid-term evaluation. Unannounced spot checks not less than quarterly.