

Republic of the Philippines Department of Agriculture PHILIPPINE RURAL DEVELOPMENT PROGRAM Province of Misamis Oriental Municipality of SALAY

## **OFFICE OF THE MUNICIPAL MAYOR**

NAME OF SUB-PROJECT :

LOCATION : TOTAL PROJECT COST : PROJECT ID NO. : Concreting of 1.800 kms. Membuli Farm to Market Road Section Barangay Membuli, Salay, Misamis Oriental Php

Folder No. 3 (Social Environmental Safeguard)

Submitted By:

**ROMEO L. GUE Municipal Mayor** 

DA-AFO 10 R. I/T-BUILD RECEIVED DATE: 12/02/13 BY: POWE

## Mindanao Rural Development Project – Adaptable Loan Program II Environmental Management Plan Template for Rural/Farm-to-Market Roads

[Note: This template is designed to rapidly identify and assess the environmental issues and associated mitigation/management measures in Rural and Farm-to-Market Roads funded under MRDP2. This template consolidates all safeguards aspect of Communal Irrigation Subproject as found in various project documents. This document replaces the EMP checklist in Annex 38 of the RI Manual]

Name of Road	•	CONCRETING OF 1.800 KMS. MEMBULI FARM TO MARKET ROAD
Location	•	BARANGAY MEMBULI, SALAY, MIS. OR.
Implementing LGU	•	SALAY, MISAMIS ORIENTAL
Estimated number o	f	
Beneficiaries	:	1,417 Total Population, 692 Male and 725 Female and 298 HH
New or Rehab	:	UPGRADING
<b>Estimated Total Cos</b>	t:	Php 14,846,473,45

## A. Site and Design Consideration

[Do not proceed with the Subproject preparation including this ESMP unless all items below are confirmed true.]

- 1. The Road does not encroach into or traverse any declared protected area of natural habitat (*c.f. Loan Agreement: MRDP2 will not fund subprojects located inside a declared Protected Area*);
- 2. The subproject will not displace, disfigure or render inoperable/inaccessible any monument or physical structure of known cultural and historical significance.

**B.** Environmental Issues and Mitigation Measures [*The following are issues frequently associated with Farm to Market Roads. Issues include alleged/perceived impacts, potential impacts, health and safety and environmental risks. Entries in the "Assessment" column should describe or provide qualifications regarding the significance of the issues. Issues that are deemed critical or significant should have a corresponding entry in the "Mitigation" column. Entries in the "Instrument" column should indicate how and where in the measures will be implemented in the Subproject. Please feel free to add, delete or modify any of the items in the template. In preparing the EMP below refer to the Environmental and Social Assessment Section of the FS for specific safeguards issues and assessments]* 

Issue (Potential Impact)	Assessment	Mitigation Measure	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*
1. Temporary	☑ Topography of	☑ Earthmoving/	DED/POW;
increase in	the road	cutting of slopes to	Contract
sedimentation	alignment	be done during dry	
during	necessitate	months	

Issue (Potential Impact)	Assessment	Mitigation Measure	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*
construction	massive earthmoving and cutting of clayey or loose topsoils ☑ Cut materials will consist mainly of hard rocks and are unlikely to generate significant sediments	<ul> <li>Proper disposal and compaction of spoils</li> <li>[] No measures required</li> </ul>	
2. Potential contamination of surface and groundwater with oil/grease	<ul> <li>[] Waste oil and grease from equipment could contaminate surface water</li> <li>☑ There will be no or insignificant amount of waste oil/grease</li> </ul>	✓ Proper handling and disposal of waste oil and grease	Contract
3. Potential contamination with human waste	<ul> <li>[] Construction workers would be temporarily housed in a base camp</li> <li>☑ Workers would be mostly locals and are expected to go home to their respective houses after works</li> </ul>	[ ] Set up adequate latrine/toilet facility at the base camp	Contract
4. Potential disruption of traffic flow	<ul> <li>The access road and/or segments to be rehabilitated need is vital to daily activities of the residents and farmers and need to be kept open to traffic during construction</li> <li>The construction will not affect daily</li> </ul>	<ul> <li>Keep the road open to traffic flow and minimize disruptions along the access road and/or construction area; Provide adequate warning signs and traffic personnel when necessary;</li> <li>Undertake regular maintenance measures on the passable</li> </ul>	Contract

Issue (Potential Impact)	Assessment	Mitigation Measure	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*
	movement of residents and farmers	portions of the roads [] No measures needed	
5. Potential dust/mud nuisance during construction	Roads could become powdery during dry days and muddy during rainy days of the construction period [] Access road and/or the construction/ rehabilitation works passes through a populated area ☑ Access road and/or construction/ rehabilitation does not pass through any populated area	<ul> <li>[] Undertake sprinkling of road (including access roads) during dry days, and filling up of potholes during rainy days, especially in residential areas</li> <li>[]Set up speed limits for vehicles, especially within residential areas</li> <li>☑ No measures needed</li> </ul>	Contract
6. Landslide/	[] The road will	[] Include slope	DED/POW
erosion of exposed road sides resulting in sedimentation of waterways	traverse a mountainous area necessitating deep cuts on mountainsides, particularly between station and, etc (check DED for deep cuts) [] The exposed slopes will likely consist of highly erodible loose materials [] The cut slopes will be hard materials that would resist erosion [] The road passes through a relatively benign terrain, cuts will be minimal ☑ The rehabilitation work does not involve additional road cuts	protection works at the following stations: 	Or (if budget does not permit) LGU Commitment Letter
7. Inadequate	[] The road will block	[] Installation of cross	DED

Issue (Potential Impact)	Assessment	Mitigation Measure	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*
drainage resulting in flooding or ponding	runoff, resulting in flooding on one side of the road during rainy days. [] Drainage issues unlikely	drain between station and	
8. Potential increase use of pesticides due to intensification of cash crop production in the area	<ul> <li>[] There is an ongoing IPM program of DA in the service area</li> <li>Image: Farmers in the service area have not been trained on IPM</li> </ul>	[] DA to continue to support IPM program ☑ LGU to Coordinate with DA on IPM training	Capacity Building Plan O&M Plan; Capacity Building Plan
9. Potential acceleration of denudation of the upland/hilly areas due to intensification of crop production	<ul> <li>[] The proposed road will connect to the market an upland/hilly area where farmers are currently practicing erosive farming techniques. The road could help accelerate the denudation of the upland/hillsides rendering them unproductive in a few years.</li> <li>I The road connects only lowland farms to the market</li> </ul>	[] DA to coordinate with LGU for the introduction of sustainable upland farming systems in the area ☑ No measure required	O&M Plan; Capacity Building Plan
10. Potential increased in encroachments of human activities into the nearby public forest	[] The proposed road will improve human access to the nearby public forest, resulting in increase slash and burn cultivation, illegal logging and poaching. [] The proposed road does not improve access to a public forest	<ul> <li>[] Coordinate with DENR for the enactment of ordinance deputizing the local community to enforce forestry laws</li> <li>[] No measure required</li> </ul>	O&M Plan; Capacity Building Plan
11. Local employment	Construction will provide local employment opportunities		Contract

Issue (Potential Impact)	Assessment	Mitigation Measure	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*
	opportunities	Implement RI Manual on local hiring	
	[] Construction does not provide any local employment opportunities	[] No measures required	
<others issues="">.</others>			

Prepared by: 加村水 HURLEY V. SALVAÑA MPDC

Adopted by:

C

CORAFAITH V. CAUSON MPMIU Head

Noted by:

Spatisme EDNA W. RAFISURA Barangay Captain