

DEPARTMENT OF AGRICULTURE
Philippine Rural Development Project

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 PRDP. This template consolidates all safeguards aspect of Farm to Market Roads Subproject as found in various project documents.

ADDITIONAL NOTES: Items in red are mandatory items recently required based on the comments of the World Bank. The ESMP table should form part of the write up and the signed copy of the ESMP must be included in the SES attachments.

Name of Road:	Rehabilitation of Mayao Silangan to Mayao Kanluran to Ilayang Dupay Farm-to-Market Road
Location:	Barangays Mayao Silangan to Mayao Kanluran to Ilayang Dupay, Lucena City
Implementing LGU:	City Government of Lucena
Estimated number of beneficiaries:	10,759
New or Rehab:	Rehabilitation
Estimated Total Cost:	P 13,943,417.58

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: PRDP 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 ESMP below refer to the Environmental and Social Assessment Section of the FS for specific safeguards issues and assessments]*

Issue/ Potential Impact	Assessment	Mitigation Measure	Schedule/ Duration of Mitigation Measures Implementation	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*	Responsible Unit
1. Temporary increase in sedimentation	[] Topography of the road alignment necessitate	[x] Earthmoving/ cutting of slopes to be done during dry months	As needed and necessary	DED/POW; Contract	City Engineering Office and I-BUILD, CPMIU


Issue/ Potential Impact	Assessment	Mitigation Measure	Schedule/ Duration of Mitigation Measures Implementation	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*	Responsible Unit
during construction	massive earthmoving and cutting of clayey or loose topsoils [x] Cut materials will consist mainly of hard rocks and are unlikely to generate significant sediments	[x] Proper disposal and compaction of spoils [] No measures required			
2. Potential contamination of surface and groundwater with oil/grease	[x] Waste oil and grease from equipment could contaminate surface water [] There will be no or insignificant amount of waste oil/grease	[x] Proper handling and disposal of waste oil and grease	As needed and necessary	Contract	City Engineering Office and I-BUILD, CPMIU
3. Potential contamination with human waste	[] Construction workers would be temporarily housed in a base camp [x] Workers would be mostly locals and are expected to go home to their respective houses after works	[x] Set up adequate latrine/toilet facility at the base camp	By start of project	Contract	City Engineering Office and I-BUILD, CPMIU, City Health Office
4. Potential disruption of traffic flow	[x] 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 [x] The construction will not affect daily movement of residents and farmers	[x] 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; [x] Undertake regular maintenance measures on the passable portions of the roads [] No measures needed	During mobilization of heavy equipment and whenever necessary	Contract	I-BUILD, CPMIU and Traffic Office
5. Potential dust/mud nuisance during construction	Roads could become powdery during dry days and muddy during rainy days of the construction period	[x] Undertake sprinkling of road (including access roads) during dry days, and filling up of potholes during rainy days,	As needed and necessary	Contract	City Engineering Office and I-BUILD, CPMIU

Issue/ Potential Impact	Assessment	Mitigation Measure	Schedule/ Duration of Mitigation Measures Implementation	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*	Responsible Unit
	<input checked="" type="checkbox"/> Access road and/or the construction/ rehabilitation works passes through a populated area <input type="checkbox"/> Access road and/or construction/ rehabilitation does not pass through any populated area	especially in residential areas <input checked="" type="checkbox"/> Set up speed limits for vehicles, especially within residential areas <input type="checkbox"/> No measures needed			
6. Landslide/ erosion of exposed road sides resulting in sedimentation of waterways	<input type="checkbox"/> The road will traverse a mountainous area necessitating deep cuts on mountainsides <input type="checkbox"/> The exposed slopes will likely consist of highly erodible loose materials <input type="checkbox"/> The cut slopes will be hard materials that would resist erosion <input type="checkbox"/> The road passes through a relatively benign terrain, cuts will be minimal <input checked="" type="checkbox"/> The rehabilitation work does not involve additional road cuts	<input type="checkbox"/> Include slope protection works at the following stations: (Specify the type/s of slope protection to be applied at each section- Consult with the Municipal Engineer: <input type="checkbox"/> Bioengineering with geomat and cover crop <input type="checkbox"/> Fast growing shrub species <input type="checkbox"/> Riprap <input type="checkbox"/> Gabions <input type="checkbox"/> Terracing <input type="checkbox"/> Concrete protection wall <input type="checkbox"/> Others _____)		DED/POW Or (if budget does not permit) LGU Commitment Letter	City Engineering Office and I-BUILD, CPMIU
7. Inadequate drainage resulting in flooding or ponding	<input checked="" type="checkbox"/> The road will block runoff, resulting in flooding on one side of the road during rainy days. <input type="checkbox"/> Drainage issues unlikely	<input checked="" type="checkbox"/> Installation of cross drain between stations: Sta 0+460, Sta 0+960		DED	City Engineering Office and I-BUILD, CPMIU
8. Potential increase use of pesticides due to intensification of cash crop production in the area	<input type="checkbox"/> There is an ongoing IPM program of DA in the service area <input checked="" type="checkbox"/> Farmers in the service area have not been trained on IPM	<input checked="" type="checkbox"/> DA to continue to support IPM program <input checked="" type="checkbox"/> LGU to Coordinate with DA on IPM training		Capacity Building Plan O&M Plan; Capacity Building Plan	City Engineering Office and I-BUILD, CPMIU, City Agriculturist Office

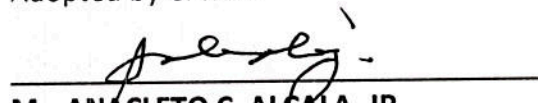
Issue/ Potential Impact	Assessment	Mitigation Measure	Schedule/ Duration of Mitigation Measures Implementation	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*	Responsible Unit
9. Potential acceleration of denudation of the upland/hilly areas due to intensification of crop production	[] 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. [x] The road connects only lowland farms to the market	[] DA to coordinate with LGU for the introduction of sustainable upland farming systems in the area [x] No measure required		O&M Plan; Capacity Building Plan	City Agriculturist Office to verify and confirm
10. Local employment	[x] Construction will provide local employment opportunities	[x] Hiring priority shall be given to qualified local residents; Implement RI Manual on local hiring	Prior to final award of contract	Contract	City Engineering Office and I-BUILD, CPMIU,
11. Conversion of Land-use/natural habitat due to quarry	[] the proposed quarry site is within a private land and need to convert existing land-use [x] Quarry site is existing and proven as a good source of quarry materials	[x] Quarry materials will be procured to existing quarry sites		Certification	City Engineering Office and I-BUILD, CPMIU
12. Potential damage to existing road due to hauling of quarry materials	[x] source of quarry materials is 15 km. Transportation of quarry materials from source to FMR will cause damage to existing FMR	[x] regular maintenance and repair of existing road	As needed and necessary	Contract; O&M Plan; Penalty clause to be included in the contract if the delivery trucks of the contractor damages any existing road or structures or once the load limit was not observed.	City Engineering Office and I-BUILD, CPMIU

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13. Potential Damage to standing crops, houses and/or other properties section	[x] The proposed project is a rehabilitation of an existing barangay road, there will be no persons or properties that will be displaced or removed, as well as trees, and electric posts				CPMIU, City Engineer
14. Possible discovery of artifacts, bones and other objects of interest during construction of the processing plant	[] Discovery of artifacts, bones and other objects of interest within the 10 meter radius [] Discovery of artifacts, bones and other objects of interest outside the 10 meter radius	[x] Suspension of the activities and immediately report to the PLGU and RPCO SES Focal Person	During construction period	Contract	Contractor
15. Conflict between project implementers and other stakeholders/ Grievance during implementation	[x] There is an acceptable Grievance Redress Mechanism in place	[x] The project implementers to ensure that all grievances are properly addressed	Before and during project implementation	[x] Grievance Redress Mechanism Framework Contract	CPMIU/ Contractor

Prepared by:


Engr. RHODENCIO L. TOLENTINO
 OIC, City Engineer

Adopted by CPMIU:

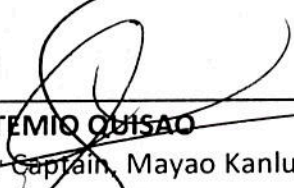

Mr. ANACLETO C. ALCALA, JR.
 City Administrator
 CPMIU Head

Noted by the local community:



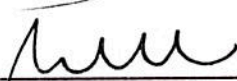
Hon. NIEVES MAAÑO

Barangay Captain, Mayao Silangan



Hon. ARTEMIO QUISAO

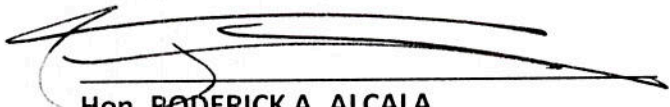
Barangay Captain, Mayao Kanluran



Hon. ALEX ABADILLA

Barangay Captain, Ilayang Dupay

Endorsed by:



Hon. RODERICK A. ALCALA

City Mayor