Philippine Rural Development Project Environmental and Social Management Plan

Name of Road : Rehabilitation/Upgrading of Manano-Olango FMR

Location : Brgys. Olango, Siyempre Viva Sur, Trinidad and Manano,

Mallig, Isabela

Implementing LGU : Provincial Government of Isabela

Number of beneficiaries : 8,517 population

1,898 household

Road Status ; Existing Gravelled Road with 440 meters road opening

Estimated Total Cost : Php 62,493,982.25

A. Site and Design Concept

1. The FMR is an existing road and does not encroach into or traverse any declared protected

area of natural habitat and or ancestral domain claims of Indigenous Cultural Communities

- 2. The subproject have no recorded and or assessed any monument or physical structure of known cultural or historical significance.
- 3. That the sub-project does not displace any person, or property o cultural communities. any individual or of indigenous

B. Environmental Issues and Mitigation Measures:

Issue (Potential Impact)	Assessment (Sample assessments)	Mitigation Measure	Schedule or duration of Mitigation Measures	Instrument of Implement ation (POW, Contract, IDP, or O &M Plan)*	Responsibl e Unit
1. Temporary	Topography of the	Proper	Upon	DED/POW;	Contractor
increase in sedimentation	road alignment necessitate	disposal and	implementation to completion of	Contract	PEO
during	massive	compactio	project		ENRO/SES
construction	earthmoving and cutting of clayey or loose top soil	n of spoils			M & E
2. Potential	There will be no	Proper	During construction	Contract	Contractor
contamination	or insignificant	handling	period		M & E
of surface and groundwater	amount of waste oil/grease	and disposal of			11002
with oil/grease	on/grease	waste oil			
		and grease			
3. Potential	Workers would be	Set up	From start to finish	Contract	ENRO/SES
contamination	mostly locals and	adequate			

Issue (Potential Impact)	Assessment (Sample assessments)	Mitigation Measure	Schedule or duration of Mitigation Measures	Instrument of Implement ation (POW, Contract, IDP, or 0 &M Plan)*	Responsibl e Unit
with human waste	are expected to go home to their respective houses after works	latrine/toil et facility at the base camp			M & E
4. Potential disruption of traffic flow	The construction will not affect daily movement of residents and farmers	Keep the road open to traffic flow and minimize disruption s along the access road and/or constructi on area; Provide adequate warning signs and traffic personnel when necessary;	From the beginning of construction until formal turn over	Contract	PEO Contactor
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 construction/reha bilitation does not	Undertake sprinkling of road (including access roads) during dry days, and filling up of potholes during rainy days, especially in residential areas	During excavation periods from the beginning of construction period or upon completion of sub-project. Put up sinages at strategic points.	Contractor And Monitoring and Evaluation Unit	PEO PPDO Contractor

Issue (Potential Impact)	Assessment (Sample assessments)	Mitigation Measure	Schedule or duration of Mitigation Measures	Instrument of Implement ation (POW, Contract, IDP, or 0 &M Plan)*	Responsibl e Unit
	pass through any populated area	[x]Set up speed limits for vehicles, especially within residential areas			
6. Landslide/ erosion of exposed road sides resulting in sedimentation of waterways	The road passes through a relatively benign terrain, cuts will be minimal	Include slope protection works at the following stations: Sta. 4+25; 4+602; 5+485; 6+414; 6+815; 7+198	During construction period	DED/POW LGU Commitmen t Letter Monitoring and Evaluation team of the PPMIU	
7. Inadequate drainage resulting in flooding or ponding	Drainage issues unlikely but for future flooding issues, drainages are to be installed.	Sta. 4+25; 4+602; 5+485; 6+414; 6+815; 7+198	Proposed location of box culverts	DED	Contractor OPE ENRO-SES M & E
8. Potential increase in encroachments of human activities into the nearby public forest	The proposed road does not improve access to a public forest	Identified headwater s of Casili creek and Mallig River to be subject to reforestati on	From the start of project and to extend for a period of ten years to sustain rehabilitation efforts	O&M Plan; Capacity Building Plan;.ESMP	Malaya Dev. Coop ENRO-SES PPDO/M7E LGUs
9. Local employment	Construction will provide local employment opportunities	Hiring priority shall be given to	During construction	Contract/PO W Labor Cost of project	Contractor PEO

Issue (Potential Impact)	Assessment (Sample assessments)	Mitigation Measure	Schedule or duration of Mitigation Measures	Instrument of Implement ation (POW, Contract, IDP, or 0 &M Plan)*	Responsibl e Unit
		qualified local residents; Implement ation Manual on local hiring		(skilled and Unskilled) =Php 1,194,420.8 0.	
10. Conversion of Land-use/natural habitat due to quarry	Quarry site is existing and proven as a good source of quarry materials	Quarry materials will be procured to existing quarry sites at Aurora, Isabela and or Cabatuan, Isabela. Attached certificatio n that quarrying has no adverse impacts to the environme nt.	Schedule of volume of quarry materials needed as computed in the Programs of Work for the 9.17-km FMR	Programs of Work	PEO Contractor
11. Potential damage to existing road due to hauling of quarry materials	[x] source of quarry materials is 20 km. Transportation of quarry materials from source to FMR will cause damage to existing FMR	[x] regular maintenan ce and repair of existing road from national road to the project site is more or less 2-kilometers	During construction period	Contract	PEO ENRO

Issue (Potential Impact)	Assessment (Sample assessments)	Mitigation Measure	Schedule or duration of Mitigation Measures	Instrument of Implement ation (POW, Contract, IDP, or O &M Plan)*	Responsibl e Unit
12. Conflict between members of the organization/Gr ievance during operation	Grievance investigation and resolution process	Review of policies instituted in the IESSF	Before, during and decommissioning process	Operations Manuel/Exe cutive Order No. 13, s. 2015	Project proponent/ LGUs
13. Possible discovery of artifacts, bones and other objects of interests during construction of the farm to market road	Discovery of artifacts, bones and other objects of interests within the 10 meter radius	Suspensio n of the activities and immediatel y report to the PLGU and RPCO- SES Focal Person	Submissin of ECC to the PPMIU-SES Focal person	Contract	Contractor
14. BATCHING PLANT operability	Dust emissions/noise pollution	Daytime Operations only/use of water on dust eliminatio n	During construction/opera tion/ECC submission prior to operation.	Contract	Contractor

Prepared by: Certified correct:

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