

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

Name of Sub-project	: Rehabilitation of Barangay Caduhaan to Sitio Aluyan FMR
Location	: Brgy. Bug-ang, Toboso, Negros Occidental
Implementing LGU	: Provincial Government of Negros Occidental through the Provincial Engineer's Office
Estimated No. of Beneficiaries	: 3,165 POPULATION Male : 1656 ; Female : 1509 633 household
Rehabilitation or New	: Rehabilitation of Existing Road
Estimated Total Cost	: Php 134,758,000.00

A. Site and Design Consideration

The road does not encroach or traverse any declared protected area or natural habitat.

Physical Cultural Resources has insignificant effect in the subproject area and no historical monuments or archaeological artifacts that is situated in the road influence area for most of the land is a hacienda type or titled properties where landlords have the control over the area.

B. Environmental Issues and Mitigation Measures:

Issue (Potential Impact)	Assessment	Mitigation measure	Schedule/ Duration of the Mitigation Measures	Instrum ent of Implem entation (POW, Contract , IDP, or OC&M Plan)*	Responsi ble Unit
1. Temporary increase in sedimentation during construction	Topography of the road alignment necessitate massive earthmoving and cutting of clayey of loose top soil	Silt traps will be provided for earthmoving/cutting of slopes Proper disposal and compaction of soils	53 CD	DED/POW ; Contract	PEO/ City Gov't.

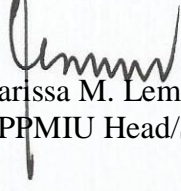
2. Potential contamination of surface and groundwater with oil/grease	There will be no or insignificant amount of waste oil/grease during construction	Proper handling and disposal of waste oil and grease if ever present		Contract	CityGov't.
3. Potential contamination with human waste	Some construction workers would be temporarily housed in base camp Workers would be mostly locals and are expected to go home to their respective houses after works	Set up adequate latrine/toilet facility at the base camp	During construction	Contract	Contractor
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 disruptions along the access road and/or construction area; Provide adequate warning signs and traffic personnel when necessary Undertake regular maintenance measures on the passable portions of the roads.		Contract	Contractor
5. Potential dust/mud nuisance during construction	Road construction/rehabilitation does not pass through any populated area.	No measures needed			Community residents and officials
6. Landslide/erosion of exposed road sides resulting in sedimentation in waterways during construction phase	There is no major downgrading of slopes	Include slope protection works at the following stations. Riprap at Sta. 56+116.82 to Sta. 56+173.84		DED/POW or (if budget does not permit) LGU Commitment letter	Contractor
7. Increase of suspended particulate matter in air					

8. Inadequate drainage resulting in flooding or ponding	The road will block run off, resulting in flooding on one side of the road during rainy days	Installation of cross drain between stations. Sta 51 +453. 52 +118, 53+874, 54+763, 54+993, 58+822, 59+974 & 60+231		DED	Contractor
9. Potential acceleration of denudation of the upland/ hilly areas due to intensification of crop production.	The road connects only lowland farms to the market	No measures required		O & M Plan; Capacity Building Plan	
10. Potential increased in encroachments of human activities into the nearby public forest	The proposed road does not improve access to a public forest	No measures required		O & M Plan; Capacity Building Plan	
11. Provide local employment	Construction will provide local employment opportunities	Hiring priority shall be given to qualified local residents; Implement RI Manual on local hiring	384 CD	Contract	PEO
12. Potential increase of solid waste to be generated due to influx of construction workers					
13. Road safety and management	Safety measures for workers and commuters during project construction	Road hats, safety shoes and other accessories for workers Installation of warning signs and devices for commuters and residents		OCM DED	PLGU/ Contractor
14. Increase volume of traffic after construction	With the improvement of the road network the number of vehicles will	Speed limit be regulated		O & M	CLGU/ Brgy Officials

	increase				
15.Chance Find of Any Archaeological/Paleontological resources	Construction will be suspended	Secure the area and take photographs of the artifacts with or without the LGU contract administrator or representative Report finds to PPMIU, RPCO SES Officer and to the National Museum			Contractor / Brgy Officials/ CLGU/ PLGU

* CD = calendar days

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