

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

Name of Sub-project : Rehabilitation of Sitio Magtuod to Sitio Vergara 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 : 2,290 POPULATION Male : 949; Female : 1341
448 household

Rehabilitation or New : Rehabilitation of Existing Road

Estimated Total Cost : Php 47,237,000.00

A. Site and Design Consideration

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

The construction of the proposed farm-to-market road does not traverse any cultural property or resources either owned by the IP or of any declared cultural heritage nor it is within or adjacent to ancestral domain for the road influence area are titled property.

B. Environmental Issues and Mitigation Measures:

Issue (Potential Impact)	Assessment	Mitigation measure	Schedule/ Duration of the Mitigation Measures	Instrument of Implementa tion	Respons ible Unit
1. Temporary increase in sedimentation during construction	Topography of the road alignment necessitate massive earthmoving and cutting of clayey of loose of soil No excavation surplus that will be disposed because all excavated materials will be used for embankment purposes	Proper disposal and compaction of soils	5 CD	DED/POW; Contract	PEO, Mun. Gov't

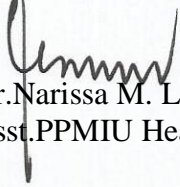
2. Potential contamination of surface and groundwater with oil/grease	There will be no or insignificant amount of waste oil/grease	Proper handling and disposal of waste oil and grease	164 CD	Contract	PEO
3. Potential contamination with human waste	Workers would be mostly locals and are expected to go home to their respective houses after works	Set up adequate latrine/toilet facility at the base camp	164 CD	Contract	Mun. Gov't.
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	164 CD	Contract	Mun. Gov't.
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/rehabilitation does not pass through any populated areas.	No measures needed		Contract/ O & M Plan	Mun. Gov't
6. Landslide/ erosion of exposed road sides resulting in sedimentation in waterways	The exposed slopes will likely consist of highly erodible loose materials	Include slope protection works at the following stations. 110+248, 110+871, 113+350 & 113+350	27 CD	DED/POW or (if budget does not permit) LGU Commitment letter	PEO/Contractor
7. Inadequate drainage resulting in flooding or ponding	The road will block runoff, resulting in flooding on one side of the road during rainy days	Installation of cross drain between stations 109 + 305, 109 +479, 110+280, 110+ 720, 110+850, 111+000, 111+350, 111+480, 112+115, 112+2	22 CD	DED	PEO

		63, 112+380,112+8 00,113+109&11 3+320			
8. Potential increase use of pesticides due to intensification of cash crop production in the area	Farmers in the service area have not been trained on IPM	LGU to coordinate with DA on IPM training	Every quarter	Capacity Building Plan O & M Plan;	Mun. Gov't.
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	Reforestation program be incorporated with the Municipal Development involving residents and students in the road influence area.	Whole year round	O & M Plan; Capacity Building Plan	
10. Potential increased in encroachment of human activities into the nearby public forest	The proposed road does not improve access to a public forest	No measure required		O & M Plan; Capacity Building Plan	
11. Local employment	Construction will provide local employment opportunities	Hiring priority shall be given to qualified local residents; Implement RI Manual on local hiring	164 CD	Contract	PEO/Mun. Gov't.
12. Use of pesticides/herbicides on crop production	Increase labor cost during weeding and cultivation process	IPM- FFS is introduced Farmers will be trained on proper handling of pesticides and herbicides		O & M	Mun. Gov't.
13. Potential flooding of Dalinson Overflow	As sugarcane area the possibility of flooding during heavy downpour could not hold the volume of water that flows from the origin and tributaries of the river	Road signs will be installed 50 meters before and after the spillway.		O & M	

14. Narrow width of spillway in Himogaan	As protection of vehicles passing the spillway	Concrete barrier to be installed on the entire spillway		Variation Order	Contract
15. Increase volume of traffic after construction	With the improvement of the road network the number of vehicles will increase	Speed limit be regulated		O & M	MLGU/ Brgy Officials
16.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/ MLGU

• CD = calendar days

Prepared by:



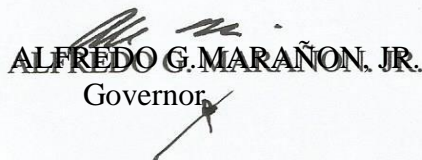
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Endorsed by:



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