ANNEX E-1

Department of Agriculture Philippine Rural Development ProJECT

TEMPLATE FOR RURAL/FARM-TO-MARKET ROADS

Name of Road:Rehabilitation of Brgy. Little Panay – Katipunan-Kasilak FMRLocation:Brgy. Little Panay and Katipunan-KasilakImplementing LGU:Province of Davao del NorteEstimated number of beneficiaries: 1, 913 household.ConcretingNew or Rehab:ConcretingEstimated Total Cost:P 78,012,038.26

Issue (Potential Impact)	Assessment (Sample assessments)	Mitigation Measure	Schedule/ Duration of the Mitigation Measures	Instrument of Implementa tion (POW, Contract, IDP, or O&M Plan)*	ponsi Unit
1. Temporary increase in sedimentati on during construction	 [] Topography of the road alignment necessitate massive earthmoving and cutting of clayey or loose topsoil [V] Cut materials will consist mainly of hard rocks and are unlikely to generate significant sediments 	 [√] Earthmoving/ cutting of slopes to be done during dry months [] Proper disposal and compaction of spoils [] No measures required 	During Sub grade preparati ons (BAR CHART/S- Curve)	POW/DED	Contra ctor
2. Potential contaminati on of surface and groundwater with oil/grease	 [] Waste oil and grease from equipment could contaminate surface water [√] There will be no or insignificant amount of waste oil/grease 	[V] Proper handling and disposal of waste oil and grease	Before Start of the SP	Contract	Contra ctor

3. Potential	[1] Construction workers	[v/] Sot up	Before	Contract	Contra
on with human waste	 [V] Construction workers would be temporarily housed in a base camp [V] 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	start of the SP	Contract	ctor
4. Potential disruption of traffic flow	[√] 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 [] 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 [] No measures needed 	During the impleme ntations of SP	Contract	Contra ctor
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 [V] Access road and/or construction/ rehabilitation does not pass through any populated area	 [] Undertake sprinkling of road (including access roads) during dry days, and filling up of potholes during rainy days, especially in residential areas [√] Set up speed limits for vehicles, especially within residential areas 	During sub grade and aggregat e sub base course preparati on (BAR CHART/S- Curve)	POW /DED	contra ctor

		[] No measures needed			
6. Landslide/ erosion of exposed road sides resulting in sedimentati on of waterways	 [] The road will 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 [V] The road passes through a relatively benign terrain, cuts will be minimal [] The rehabilitation work does not involve additional road cuts 	[] Include slope protection works at the following stations: 	After construct ion of the road segment (BAR CHART/S- Curve)	DED/POW	contra ctor
7. Inadequate drainage resulting in flooding or ponding	 [V] The road will block runoff, resulting in flooding on one side of the road during rainy days. [] Drainage issues unlikely 	 [V] Installation of cross drain between stations: RCPC (0+180, 3+954.12, 4+091.36, 6+545.43, 	1 st month of the activity (BAR CHART/S- Curve)	DED/POW	Contra ctor
		6+545.43, 6+571.65,6+608. 43 and 6+913			

		3 Barrel Box			
		Culvert			
		(7+503.98)			
8. Potential increase use of pesticides due to intensificatio n of cash crop production in the area	 [] There is an ongoing IPM program of DA in the service area [√] Farmers in the service area have not been trained on IPM 	 [√] DA to continue to support IPM program [] LGU to Coordinate with DA on IPM training 		Capacity Building Plan O&M Plan; Capacity Building Plan	DA PLGU/ LGU/B LGU
9. Potential acceleration of denudation of the upland/hilly areas due to intensificatio n 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. [V] 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 [] No measure required 		O&M Plan; Capacity Building Plan	DA PLGU/ LGU/B LGU
 10. Potential increased in encroachme nts of human activities into the nearby public forest 11. Local employment 	 [] The proposed road will improve human access to the nearby public forest, resulting in increased slash and burn cultivation, illegal logging and poaching. [√] The proposed road does not improve access to a public forest [√] Construction will provide local employment opportunities 	 [] Coordinate with DENR for the enactment of ordinance deputizing the local community to enforce forestry laws [√] No measure required [√] Hiring priority shall be given to qualified local residents; 	During the Impleme ntation of	Contract	Contra ctor and BLGU
	[] Construction does not provide any local employment opportunities	Iocal residents; Implement RI Manual on local hiring [] No measures required	the SP		BLGU

12.	[] the proposed quarry site is	[x] Quarry	During	Contrac
Conversion	within a private land and need	materials will be	the	tor
of Land-	to convert existing land-use	procured to	Impleme	
use/natural	[x] Quarry site is existing and	existing quarry	ntation of	
habitat due	proven as a good source of	sites	the SP	
to quarry	quarry materials			
13. Potential	[x] source of quarry materials	[x] regular	During	Contrac
damage to	is <u>25</u> km. (Item 201 and Item	maintenance and	the	tor
existing road	200) Transportation of quarry	repair of existing	Impleme	
due to	materials from source to FMR	road	ntation of	
hauling of	will not cause damage to		the SP	
quarry	existing FMR			
materials				

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