

## **D. Social Assessment**

### ***D. 1 Project Beneficiaries***

There are 3,285 total beneficiaries of this subproject, 1,549 from Barangay Magsaysay, 949 from Barangay Dolores and 787 from Barangay Canaan with a total households of 758 based on the NSO Census on Population as of 2009.

Majority of the beneficiaries are farmers. The proposed project is welcomed and accepted by the beneficiaries. The people in the project area have hope that this will finally be realized.

A consultative Joint meeting in Barangay Magsaysay, Dolores and Canaan was conducted last October 10,2012 and attended by the beneficiaries coming from the Barangay of Magsaysay, Dolores and Canaan. During the meeting, it was unanimously recommended by the people to endorse the project – Concreting of Magsaysay – Dolores - Canaan Farm to Market road to the Municipal Development Council of Antipas, Cotabato for the requisite funding.

### ***D. 2 Indigenous Cultural Community/Indigenous Peoples (ICC/IP)***

The project is located outside any ancestral domain.

Upon consultation conducted, the Manobo's have expressed their gratitude and conformance to the Barangay and Municipal Officials of Antipas to the planned Implementation of the subproject. See attached certification from Municipal Indigenous People Consultative Body ( MIPCB) duly signed by concerned individuals.

***D. 3 Site and Right-of-Way acquisition.***

Private landowner donated the portion of right of way. This is so because of the fact that the road is already existing. Only the side ditches were not defined and course aggregates were already eroded. The width of the road is already defined, and the traverse is already established.

To signify that these occupants have given their consent in utilizing their portion of land affected by the proposed farm-to-market road, they have signed the entitlement survey together with their respective Deed of Donations, hereto attached to the FS..

All these occupants were present during the consultative joint meeting held on October 10, 2012 at Barangay Dolores. Lot occupants who are out of town during the meeting have sent their respective representatives and signified their willingness to support the proposed Concreting of road.

***D. 4 Damage to standing crops, houses and/or properties.***

The Concreting of Magsaysay-Dolores-Canaan FMR will not affect any trees and structures. The road has existed for so many years already.

***D. 5 Physical displacement of persons***

The proposed project will not result in the relocation of houses and will not displaced any persons.

#### ***D. 6 Economic displacement of persons***

Being an existing road, the project will not cause any loss of livelihood or reduced access of families to their traditional livelihood sources.

### **E. Environmental Considerations**

#### ***E. 1 Natural habitat***

The project site is not within an officially declared or proposed protected area of natural habitat

#### ***E. 2 Physical Cultural Resources –***

There are no structures, monuments or physical cultural resources in the subproject site. The project will not also change any or impact any landscape thereat.

#### ***E. 3 Terrain, Soil Types and Rainfall***

The topography of the proposed subproject site is Flat, rolling and hilly. Generally, there are only two types of soil present in Antipas; the mountain soil which is undifferentiated, clay and loam.

#### ***E. 5 Impacts during Construction:***

##### **(a) Construction noise mitigation**

There are houses and establishments along and nearby the construction site especially along the built areas. The construction involves the operation of heavy equipment and will undoubtedly generate loud noise. As a mitigating measures work activities should be avoided during quiet periods of the day (Night time).

##### **(b) Proper handling of construction wastes**

The subproject will entail surplus common excavation. Disposal site have been identified to haul these surpluses outside of the limits of the road right of way. This will minimize the amount of site litters and will prevent the indiscriminate dumping of surpluses along the roadside. Assurances is made by the LGU that these wastes will be collected and properly disposed of in accordance with government regulations.

**(c) Safety**

Safety of workers and the public must be given priority. Standard construction safety protocols must be observed, such as posting of road signs.

**Name of Road: Concreting of Magsaysay-Canaan Farm to Market Road**

**Location:** Brgy. Magsaysay, Brgy. Dolores & Brgy. Canaan

**Implementing LGU:** Antipas

**Estimated number of beneficiaries:** 3,285 population, 758 household

**New or Rehab:** Concreting

**Estimated Total Cost:** PHP 35,853,029.50

### **A. Site and Design Consideration**

As the road already existed, the project is not expected to have a major impact on the environment. The supervision of the construction shall be done by the technical personnel of LGU to secure the necessary environmental safeguard measures that has been undertake. During the post-construction, the barangay officials of three barangays and LGU shall undertake operation and maintenance of the road including planting trees and appropriate vegetation along the roadsides to minimize soil erosion, clearing roadway and other minor repair.

### **B. Environmental Issues and Mitigation Measures**

<b>Issue (Potential Impact)</b>	<b>Assessment</b>	<b>Mitigation Measure</b>	<b>Instrument of Implementation (POW, Contract, IDP, or O&amp;M Plan)*</b>
1. Temporary increase in sedimentation during construction	[ / ] Topography of the road alignment necessitate massive earthmoving and cutting of clayey or loose topsoils	[ ] Earthmoving/ cutting of slopes to be done during dry months  [ ] Proper disposal and	DED/POW;  Contract

<b>Issue (Potential Impact)</b>	<b>Assessment</b>	<b>Mitigation Measure</b>	<b>Instrument of Implementation (POW, Contract, IDP, or O&amp;M Plan)*</b>
	<input type="checkbox"/> Cut materials will consist mainly of hard rocks and are unlikely to generate significant sediments	compaction of spoils  <input type="checkbox"/> No measures required	
2. Potential contamination of surface and groundwater with oil/grease	<input type="checkbox"/> Waste oil and grease from equipment could contaminate surface water  <input type="checkbox"/> There will be no or insignificant amount of waste oil/grease	<input type="checkbox"/> Proper handling and disposal of waste oil and grease	Contract
3. Potential contamination with human waste	<input type="checkbox"/> Construction workers would be temporarily housed in a base camp  <input type="checkbox"/> Workers would be mostly locals and are expected to go home to their respective houses after works	<input type="checkbox"/> Set up adequate latrine/toilet facility at the base camp	Contract
4. Potential disruption of traffic flow	<input type="checkbox"/> 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  <input type="checkbox"/> The construction will not affect daily movement of residents	<input type="checkbox"/> 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;  <input type="checkbox"/> Undertake regular maintenance measures	Contract

Issue (Potential Impact)	Assessment	Mitigation Measure	Instrument of Implementation (POW, Contract, IDP, or O&M Plan)*
	and farmers	on the passable portions of the roads  <input type="checkbox"/> No measures needed	
5. Potential dust/mud nuisance during construction	Roads could become powdery during dry days and muddy during rainy days of the construction period  <input 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	<input type="checkbox"/> Undertake sprinkling of road (including access roads) during dry days, and filling up of potholes during rainy days, especially in residential areas  <input type="checkbox"/> Set up speed limits for vehicles, especially within residential areas  <input type="checkbox"/> No measures needed	Contract
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, particularly between station ____ and ____, etc (check DED for deep cuts)...  <input type="checkbox"/> The exposed slopes will likely consist of highly erodible loose materials	<input type="checkbox"/> Include slope protection works at the following stations:  _____  _____  ..etc..  (Specify the type/s of slope protection to be applied at each	DED/POW  Or (if budget does not permit)  LGU Commitment Letter

<b>Issue (Potential Impact)</b>	<b>Assessment</b>	<b>Mitigation Measure</b>	<b>Instrument of Implementation (POW, Contract, IDP, or O&amp;M Plan)*</b>
	<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 type="checkbox"/> The rehabilitation work does not involve additional road cuts	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 _____)	
7. Inadequate drainage resulting in flooding or ponding	<input 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 type="checkbox"/> Installation of cross drain between station 2+240, 2+380, 2+738, 3+019.3 and 3+874.20.	DED
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 type="checkbox"/> Farmers in the service area have not been trained on IPM	<input type="checkbox"/> DA to continue to support IPM program  <input type="checkbox"/> LGU to Coordinate with DA on IPM training	Capacity Building Plan  O&M Plan;  Capacity Building Plan



<b>Issue (Potential Impact)</b>	<b>Assessment</b>	<b>Mitigation Measure</b>	<b>Instrument of Implementation (POW, Contract, IDP, or O&amp;M Plan)*</b>
9. Potential acceleration of denudation of the upland/hilly areas due to intensification of crop production	<p><input type="checkbox"/> 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.</p> <p><input type="checkbox"/> The road connects only lowland farms to the market</p>	<p><input type="checkbox"/> DA to coordinate with LGU for the introduction of sustainable upland farming systems in the area</p> <p><input type="checkbox"/> No measure required</p>	O&M Plan; Capacity Building Plan
10. Potential increased in encroachments of human activities into the nearby public forest	<p><input type="checkbox"/> The proposed road will improve human access to the nearby public forest, resulting in increase slash and burn cultivation, illegal logging and poaching.</p> <p><input type="checkbox"/> The proposed road does not improve access to a public forest</p>	<p><input type="checkbox"/> Coordinate with DENR for the enactment of ordinance deputizing the local community to enforce forestry laws</p> <p><input type="checkbox"/> No measure required</p>	O&M Plan; Capacity Building Plan
10. Local employment	<p><input type="checkbox"/> Construction will provide local employment opportunities</p>	<p><input type="checkbox"/> Hiring priority shall be given to qualified local residents; Implement RI Manual on local hiring</p>	Contract
	<p><input type="checkbox"/> Construction does</p>	<p><input type="checkbox"/> No measures</p>	

<b>Issue (Potential Impact)</b>	<b>Assessment</b>	<b>Mitigation Measure</b>	<b>Instrument of Implementation (POW, Contract, IDP, or O&amp;M Plan)*</b>
	not provide any local employment opportunities	required	
<others issues>.			