

## **5.5 Operation and Maintenance**

### *5.5.1 Operation and Maintenance Scheme*

The municipality of Esperanza through its Sangguniang Bayan will annually appropriate funds for the operation and maintenance of the project after its completion and also the direct proponent or the barangay where the project is being located will be given full responsibility on the operation and maintenance of the project. They should also allocate funds taken from the Local development fund and the passage of an ordinance for the collection of tool fees to augment the financial requirements on the O&M.

#### *Creation and Institutionalization of Barangay Road Operation and Maintenance (BROM) Teams*

The PPMIU & MPMIU will assist the barangay councils in the creation of the Barangay Road Operation and Maintenance (BROM) Teams through a Barangay Resolution. The latter will be integrated into the regular structure of the barangay and later take charge in the operation and maintenance of the project.

#### *Formulation of O&M Policies and Ordinances*

The MPMIU will formulate policies and recommend such to the concerned offices for the issuance of executive orders and ordinances that will support to effective O&M implementation.

## **6.0 Social Assessment**

### **6.1 Project Beneficiaries**

There are 728 total beneficiaries of this subproject, 376 from Barangay Tag-anahaw and 352 from Barangay San Isidro with a total households of 148 based on the CBMS survey 2009. Out of the total beneficiaries 376 or 52.00 % are male and 352 or 48.00% are female.

The construction of Tag-anahaw-San Isidro Farm to Market Road was identified as priority project of the community during the barangay development planning workshops, participated by different Sectoral groups and adopted by the Barangay Development Council and finally approved by the Barangay Sangguniang Bayan.

Barangay Consultation Assembly was conducted to presents all sectoral plans, participation among the majority residents of the community were unanimously decided to the puroks as top priority project the MRDP-APL2 Sub-projects of Barangay Tag-anahaw and San Isidro.

## **6.2 Indigenous Cultural Community/Indigenous Peoples (ICC/IP)**

The sub-project is situated on the eastern of the municipality which mostly classified into Alienable and Disposable Area dominantly by agricultural land and no tenurial instrument or ancestral domain claim exist.

Out of the 725 population of this sub-project influence area, 127 individuals are indigenous people mostly the Manobo and other are Higa-onon and Banwa-on Tribe which are farmers.

Upon consultation conducted, every individual especially farmers expressed their gratitude to the Local Government of Esperanza for the prioritization of the said project that for the long time they are wishing for.

## **6.3 Site and Right-of-Way Acquisition**

The ROW for the proposed project was being cleared & secured by the proponent even before the approval of the project in order to have smooth & easy implementation of the sub project. The 10 land owners are voluntarily signed the needed documents to donate their land who have situated along the project site and being affected by the project.

## **6.4 Damage to standing crops, houses and/or properties.**

During the social preparation activity the project beneficiaries was oriented about the process of the project. The project site some owned by the farmers which one who devotedly offered there lot for the development project as well as with their properties that pass through on ROW such as the rice crop, 15 banana plants, 5 mango trees and 1 Narra tree. Properties and crops are already legally certified and notarized.

## **6.5 Physical displacement of persons**

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

## **6.6 Social Impact to Project Beneficiaries and Others**

It is expected that upon completion of the subproject, access to better services can be availed by the residents within the influenced area but not limited to:

- Transport convenience
- Shorter travel time
- Speedy and safe delivery of quality farm products
- Convenient of delivery of commodities and farm inputs
- Increase of agricultural production
- Easy access to public facilities
- Increase in economic activities in the influence area
- Lesser school drop-outs
- Fast delivery of basic services
- Uplift standard of living
- Increase of revenues.
- Increase family income

## **7.0 Social Assessment**

### **7.1 Natural habitat**

The project site is not along the protected and watershed area base on the municipal land use of the municipality.

### **7.2 Physical Cultural Resources –**

There are no structural landmarks and any cultural resources in the project site.

### **7.3 Terrain, Soil Types and Rainfall**

The topography of the proposed subproject site is mostly flat and it is also belong to the camansa clay loam soil type.

The climate of Esperanza is classified as type II which is characterized as no pronounced dry season with heavy precipitation which occurs normally from the months of December through the end part of March. The climate is hot and moist with an average annual humidity of 84 percent. This type of climate is very regular with no dry months and lacks any seasonal contrast. Average annual temperature range is from 23 to 32 Celsius, with the temperatures dropping towards the west portion of the town while altitude is increasing.

### **7.4 Drainage Situations and Flooding Potential**

The Barangay Taga-anahaw and San Isidro has an elevation ranging 20 – 40 meters above mean sea level. The low portions are located along the floodplains of Agusan River with the highest portions located south-west part of the municipality. Thus, the project site is outlying on the flood prone zone.

### **7.5 Impacts during Construction:**

#### *(a) Temporary erosion and sediment control*

Safety measures during construction are anticipated by the project management team regarding with sediment discharges and other loss effect of the adjacent area for development. The nearby creek distances of 300 meters away from the project site therefore the residues and erosion is controlled.

#### *(b) Construction noise mitigation*

The project ground dominantly at the rice field area and only at end of the station of the proposed road at barangay San Isidro wherein built area is nearby allocated. Bunkhouse, parking area, stocking, breaking and loading area of the heavy equipment are already considered as disturbance during construction but has mitigating measure planned to avoid the disruption of the routinary activity of the community such as school classes and other farm activities.

*(d) Proper handling of construction wastes*

The municipality of Esperanza had been implemented the RA 9003 the Municipal Ecological Solid Waste Management Act of 2000 and intensify/adopted with the municipal ordinance about proper waste segregation and disposal. The barangay San Isidro and Tag-anahaw where the proposed project site located are already been practiced this regulation. Consequently, during construction there must be an orientation vis-à-vis with the proper waste segregation and disposal to contractor's personnel or workers to avoid violation of the said ordinance.

*(e) Safety*

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

### **7.6 Environmental Management Plan**

#### **Environmental Management Plan Template for Rural Farm to Market Roads**

*Name of Road:* **Concreting of Tag-anahaw and San Isidro Farm to Market Road**

*Location:* **Barangay Tag-anahaw and San Isidro, Esperanza, Agusan del Sur**

*Implementing LGU* : **LGU of Esperanza, Agusan del Sur**

*Estimated number of Beneficiaries* : **728 Population or 148 Households**

*Type of Work* : **Concreting**

*Estimated Total Cost of Project* : **PHP 11,404,378.79**

#### **Site and Design Consideration**

- a. The Road does not encroach into or traverse any declared protected area of natural habitat.
- b. The subproject will not displace, disfigure or render inoperable/inaccessible any monument or physical structure of known cultural and historical significance.