

## Mindanao Rural Development Project – Adaptable Loan Program II Environmental and Social Management Plan for Rural/Farm-to- Market Roads Subprojects

Name of PWS Subproject: REHABILITATION OF SAN ANTONIO-SITIO LUGAMI  
FARM-TO-MARKET ROAD  
 Location: San Antonio, R. T. Lim, Zamboanga Sibugay  
 Implementing LGU: Roseller T. Lim, Zamboanga Sibugay  
 Estimated Number of Beneficiaries: 1,596  
 New or rehabilitation: Rehabilitation/upgrading  
 Estimated total Subproject Cost: P 38,007,693.54

### A. Site and Design Consideration

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

### B. Environmental Issues and Mitigation Measures

Issues	Assessment	Mitigation/Management Measure	<i>Instrument (Where this will be addressed)<sup>1</sup></i>
1. Temporary increase in sedimentation during construction	<input type="checkbox"/> Topography of the road alignment necessitate massive earthmoving and cutting of clayey or loose top soil	<input type="checkbox"/> Earthmoving/cutting of slopes to be done during dry months. <input type="checkbox"/> Proper disposal and compaction of soil.	<input type="checkbox"/> DED/POW; Contract
2. Potential contamination of surface and ground water with oil/grease	<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	<input type="checkbox"/> Contract
3. Potential contamination with human waste	<input type="checkbox"/> Construction 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	<input type="checkbox"/> Contract
4. Potential disruption of traffic	<input type="checkbox"/> The access road and/or segments to be	<input type="checkbox"/> Keep the road open to traffic flow and minimize	<input type="checkbox"/> Contract

<sup>1</sup> (DED/POW, RAP, IP Plan, O&M Plan, Capacity Building Plan)

Issues	Assessment	Mitigation/Management Measure	<i>Instrument (Where this will be addressed)</i> <sup>1</sup>
flow	rehabilitated is vital to daily activities of the residents and farmers and need to be kept open to traffic during construction	disruptions along the access road/or construction area	
5. Potential dust/mud nuisance during construction	[ ] Roads could become powdery during dry days and muddy during rainy days of the construction period.	[ ] 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.	[ ] Contract
6. Landslides/erosion of exposed road sides resulting in sedimentation of waterways.	[ ] The road will traverse a mountainous area necessitating deep cuts on mountainous sides, particularly between stations 1+340 to 1+380, 2+340 to 2+440, 2+840 to 2+890, and 3+000 to 3+080	[ ] Include slope protection works at the following stations; 1+340 to 1+380, 2+340 to 2+440, 2+840 to 2+890, and 3+000 to 3+080 i.e. Plantation of fast growing shrub species.	[ ] DED/POW
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 Drainage on the following station with catch basins, headwall and line canal on slope/hilly side;  Sta.0+460 –1 line 910mm Sta. 0+760 –1 line 910mm Sta.1+915 - 2 lines 910mm	[ ] DED
8. Potential increase on the use of pesticides due to intensification of cash crop production in the area	[ ] Farmers in the service area have not been trained on IPM	[ ] Coordinate with DA on IPM Program	[ ] Capacity Building Plan; O&M Plan;
9. Potential acceleration of denudation of the	[ ] The proposed road will connect to the market and upland/hilly	[ ] DA to coordinate with LGU for the introduction of sustainable upland	[ ] Capacity Building Plan; O&M Plan;

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upland/hilly areas, due to intensification of crop production.	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.	farming systems in the area.	
10. Potential increase in encroachments of human activities into the nearby public forests	[ ] The proposed road does not improve access to the nearby public forest.	[ ] no measure required.	[ ] Capacity Building Plan; O&M 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.	[ ] Contract

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