ROAD AND BRIDGE PROJECTS

INITIAL ENVIRONMENTAL EXAMINATION (IEE) CHECKLIST

For

REHABILITATION OF SAN ISIDRO JUNCTION MIKIT FARM TO MARKET ROAD WITH BRIDGE COMPONENT

PROJECT FACT SHEET

PROJECT NAME	:	REHABILITATION OF SAN ISIDRO JUNCTION MIKIT FARM TO MARKET ROAD WITH BRIDGE COMPONENT
PROJECT LOCATION	:	Barangay Mikit, Baganga, Davao Oriental
ROAD		_
WIDTH	:	8.o meters
LENGTH	:	2.445 kms.
BRIDGE		
WIDTH	:	7.20 meters
LENGTH	:	45.0 meters
PROJECT PROPONENT	:	PROVINCIAL GOVERNMENT OF DAVAO ORIENTAL
		Represented by: HON. CORAZON N. MALANYAON
OFFICE ADDRESS	:	Capitol Hills, City of Mati
CONTACT PERSON	:	KHURSHID B. VALLES
DESIGNATION	:	Community Development Assistant II
CONTACT INFORMATION		
TELEPHONE NUMBER	:	(087) 388-32-58
FAX NUMBER	:	(087) 811-13-45
MOBILE NUMBER	:	0947-307-68-61
E-MAIL ADDRESS	:	forestersnest@gmail.com

I. PROJECT DESCRIPTION

1.1 PROJECT LOCATION AND AREA:

(Street Name, Barangay, and Municipality/City, Province)

Barangay Mikit is located at the Western part of the Municipality of Baganga. It is bounded in the North by Barangay Campawan; in the South by Barangay Mahan-ub; in the West by barangays Campawan and Mahan-ub; and in the East by Barangay San Isidro.

Barangay Mikit is about 14 kilometers away from the Poblacion of Baganga where the commercial centers of the Municipality are situated. The Barangay is about 140 kilometers from Mati, the capital city of Davao Oriental.

The total land area of Barangay Mikit is 1,730.79 hectares more or less. This is based on the GPS survey conducted during the formulation of the Land Use Based Barangay Development Plan (LUB-BDP) in 2009 assisted by the GOP-European Union support funds through the Upland Development Programme (UDP) and in cooperation with the Municipal Government of Baganga.(See attached vicinity map/s and photographs of the project site including alignment and design.)

Perimeter/Boundary points (based on OCT/TCT/etc)	Longitude	
	FARM-TO-MARKET ROAD	
1 (Junction of Brgy. San Isidro, Baganga to Brgy. Mikti)	126° 31′ 0.89″	07° 37′ 51.97″
2	126° 31′ 0.73″	07° 37′ 50.37″
3	126° 30′ 59.37″	07° 37′ 49.73″
4	126° 30′ 57.54″	07° 37′ 48.14″
5	126° 30′ 54.94″	07° 37′ 46.41″
6	126° 30′ 48.18″	07° 37′ 45.61″
7	126° 30′ 45.16″	07° 37′ 43.50″
8	126° 30′ 43.46″	07° 37′ 41.14″
9	126° 30′ 42.18″	07° 37′ 37.72″
10	126° 30′ 41.40″	07° 37′ 34.56″

Geographic coordinates of the project area (Preferably use WGS 84 datum, otherwise specify datum used).

PROVINCIAL GOVERNMENT OF DAVAO ORIENTAL | INITIAL ENVIRONMENTAL EXAMINATION 2 (IEE) CHECKLIST

PROVINCIAL GOVERNMENT OF DAVAO ORIENTAL	INITIAL ENVIRONMENTAL EXAMINATION	3
	(IEE) CHECKLIST	

Facilities	Length / Area (meters)	Specification/Description/Remarks
1. Road	2,200.0 meters	
2. Intersections	3	
3. Bridge/s	45.0 linear meters	
4. Access roads/Ramp	1	
5. Drainage facilities (i.e. Reinforced Concrete Box Culverts (RCBC);Reinforced Concrete Pipe Culverts (RCPC), others)	 5 Units 36"Ø RCCP 9 linear meters 4 units RCBC 9 9 linear meters 	
6. Associated facilities (i.e. Guardrails, Traffic signs, etc.)	4	
7. Solid waste management facility	1	
8. Others, specify		

1.2 PROJECT COMPONENTS

11

12	126° 30′ 37.27″	07° 37′ 28.93″		
13	126° 30' 32.58″	07° 37′ 28.05″		
14	126° 30′ 27.17″	07° 37′ 29.01″		
15	126° 30′ 27.17″	07° 37′ 29.01″		
16	126° 30′ 23.53″	07° 37′ 29.93″		
17	126° 30′ 19.30″	07° 37′ 30.62″		
18	126° 30′ 14.54″	07° 37′ 30.68″		
19	126° 30′ 9.45″	07° 37′ 30.09″		
20	126° 30′ 4.86″	07° 37′ 31.00″		
RCDG BRIDGE				
1	126° 30′ 1.17″	07° 37′ 31.49″		
2	126° 30′ 58.51″	07° 37′ 31.00″		

126° 30′ 40.92″

07° 37′ 30.65″

1.3 UTILITIES/REQUIREMENTS (Construction Phase):

Utilities	Source	Estimated Demand/Consumption
Power/Electricity (Total)	DORECO	601.64 KWh
Power/Electricity (From Renewable Energy Sources)	N / A	N/A KWh
Water (Total) (Fill-up table below if water is not obtained from the local water utility)	N/A	253.50 m³/day
Water (Rainwater Collection System)	N/A	N / A m³/day

Water Source [] ground water	[] well	[] spring	[] others:		
[] Surface water	[/] river	[]lake	[] others:		
Location of water source : Brgy. MIkit, Baganga, Davao Oriental (Sitio/Zone, Barangay, Municipality/City, Province, Region)					

Energy/Water Efficiency

Utilities	Estimated Savings	Proposed Efficiency/Conservation Measures		
Power/Electricity	200.0 KWh	1. Used energy saving lamp (ESL)		
		2. Use electric tools that have		
		energy saving features.		
Water	50.0 m³/day	1. Includes in daily tool box		
		meetings on the importance of		
		water conservation.		

1.4 MANPOWER

a. Construction Phase

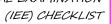
Manpower Requirement	Expertise/Skills	Total
1	Project Engineer	
11	Foreman	
2	Carpenter	
10	Mason	
2	Steel man	
97	Laborer	

1.5 INDICATIVE PROJECT COST

Project Cost (PhP): **52,378,574.56**

II. ENVIRONMENTAL IMPACTS AND MANAGEMENT PLAN

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
LAND				
Consistency with land use	Current land use w/in 1km radius (as per zoning ordinance): ✓ Residential □ Commercial/ Institutional □ Industrial ✓ Agricultural/ Recreational □ Protected Areas □ Others, specify	See attached proof of compatibility with land use		
	 Commercial/ Institutional Industrial 			



Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
	 Agricultural/ Recreational Protected Areas Others, specify 			
Disturbance to wildlife due to vegetation clearing	Existing vegetation in the area: Forestland Marshland Grassland Mangrove Wetland Others, specify	 Compliance with conditions of DENR/LGU SLUP, Tree Cutting Permit, ROW, PCA Permit Limit land clearing as much as possible Provide temporary fencing to vegetation that will be retained Promote restoration of damaged or destroyed vegetation where possible (e.g., road side tree planting); 	Annual inspection of area replanted/ revegetated	Cost integrated in the construction /operation cost



Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
 Change in surface landform/ topography/ terrain/slope Soil Erosion 	Slope: ☐ flat (o-3%) ☑ gently sloping to rolling (3-18%) ☐ steep (>18%) Is the project site located in an area identified by MGB/PAG-ASA/ PHIVOLCS as hazard prone? ☐ Yes ☑ No	 ✓ Provide erosion control and slope protection measures □ Designate a Spoils Storage Area, with topsoil set aside for later use and allow maximum re-use of spoils ✓ Construction during dry season ✓ Stabilization of embankment with grasses, trees or other soil cover /construction of rip-rap □ Others, specify 	 Regular inspection of slope protection measures in erosion-prone areas Regular inspection for new eroded areas near the site Others, specify 	□ Slope/ Erosion Control Cost: □ Others, specify □
		Guidelines on Engineering		

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
	 Existing soil type in the area: □ sandy □ clay □ sandy-loam ✓ Others, specify For FMR area: Medium dense to very dense, dark yellowish brown to light olive brown, poorly-graded silty gravels with some sands 	Measures Geological and Geo-hazard Assessment (EGGA). Implementation of the Ecological Solid Waste Management Plan (ESWMP); Set-up temporary fence around the construction area Implement re-use and recycling of waste materials Implement proper segregation, collection and disposal of domestic wastes in designated areas	-	Cost of Mitigation/ Monitoring Image: Cost integrated in the construction /operation cost
	For BRIDGE area: <u>Very stiff to hard, very</u> <u>dark greenish gray</u> <u>inorganic sandy CLAYS</u> <u>of low to high plasticity</u> <u>with some gravels</u>	 Implement proper collection, labeling and storage of hazardous waste Provide receptacles / bins for solid wastes Coordinate with the municipal / city waste 		

PROVINCIAL GOVERNMENT OF DAVAO ORIENTAL | INITIAL ENVIRONMENTAL EXAMINATION (IEE) CHECKLIST

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
	(Ref.: unified soil classification system - USCS)	collectors Engage third party company for waste collection Others, specify 		
 Encroachment into protected areas or ecologically-sensitive areas 	Is the project area near protected areas or ecologically-sensitive areas? Yes No	 Obtain appropriate permits/clearances from concerned agencies Provide adequate buffer Others, specify 	Regular coordination with concerned agencies	Cost integrated in the construction/ operation cost
 Impairment of visual aesthetics Devaluation of land values 	Presence of visually significant landforms/landscape/struct ures? Yes No	 Implement landscaping and other beautification measures Provide adequate buffer Compensate adjacent property owners Others, specify 	 Regular inspection of landscaping and other beautification activities Regular monitoring of buffer zones Regularly monitor presence/absence of complaints from adjacent property owners 	✓ Cost integrated in the construction/ operation cost



Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
WATER				
 ✓ Increased siltation due to project activities □ Water quality degradation □ Others, specify 	Specify nearest/receiving water body: <u>Baganga bay</u> Distance to nearest/receiving water body: 0 to less than 0.5 km 0 0.5 to 1 km 1 more than 1 km More than 1 km If nearest/receiving water body is fresh water, specify classification: AA A B C D If nearest/receiving water body is coastal or marine	 ✓ Set-up proper and adequate sanitary facilities ✓ Strictly require the contractor and its workers to observe proper waste disposal and proper sanitation ✓ Strictly observe proper waste handling and disposal ✓ Set up silt trap(Gabions, Fascines)/settling ponds to minimize downstream siltation Others, specify 	 Regular (ocular) inspection of: ☑ Drainage / canal systems ☑ Sanitation facilities Regular (ocular) inspection of water body for: ☑ Turbidity and/or silted condition ☑ Floating wastes or debris 	Cost integrated in the construction/ operation cost



Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
	water, specify			
	classification:			
	🗆 SA			
	☑ SB			
	□ SC □ SD			
	Current Water Use:			
	☑ Fishery			
	Tourist Zone / Park			
	✓ Recreational			
	🗆 Industrial			
	🗹 Agricultural			
	Distance of project area to			
	the nearest well used:			
	o to less than 0.5 km			
	🗌 o.5 to 1 km			
	□ More than 1 km			
	Use of the nearest well:			
	Drinking/Domestic			
	🗆 Industrial			
	Agricultural			

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
 Competition in water use Depletion of water resources 	 Size of population using receiving surface water: ✓ ≤ 1,000 persons >1,000 and ≤ 5,000 persons >5,000 person Available/nearest water source. Deepwell Water district/LGU Surface water Others, specify 	 Implement rainwater harvesting and similar measures as an alternative source of water Observe water conservation measures Others, specify 	 Regularly monitor for presence/absence of complaints Regular coordination with concerned agencies Regularly monitor for occurrences of water shortages Others, specify 	✓ Cost integrated in the construction/ operation cost
Increased occurrence of flooding	Is the project site located in an area identified by MGB/PAG-ASA as flood prone? Yes No	 Use appropriate design for project facilities Implement appropriate drainage system Regularly remove debris and other materials that may obstruct water flow Others, specify 	 Regularly monitor for presence/absence of complaints Regular coordination with concerned agencies Regularly monitor for increased frequency of flooding Others, specify 	Cost integrated in the construction/ operation cost

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
AIR / NOISE				
Air quality degradation	Distance to nearest community: □ o to less than o.5 km ☑ o.5 to 1 km □ More than 1 km	 Properly operate and maintain all emission sources (e.g. vehicles, generator, etc) Install when applicable, the appropriate air pollution control device/s Strictly enforce good housekeeping practices Control vehicle speed to lessen suspension of road dust Conduct water spraying to suppress dust sources and minimize discomfort to nearby residents Use covered vehicles to deliver materials that may generate dust Other, specify 	 Regularly monitor for presence/absence of complaints Regular (ocular) inspection of: Absence of white or black smoke from vehicles, heavy equipment, generator, etc. Presence of truck cover during deliveries 	✓ Cost integrated in the construction/operation cost

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
✓ Nuisance due to noise generation	Distance to nearest community: ✓ o to less than o.5 km □ o.5 to 1 km □ More than 1 km	 Properly operate and maintain all noise sources (e.g. vehicles, generator, etc) Install when applicable, the appropriate noise control device/s (e.g., mufflers, silencer, sound barriers, etc.) Implement appropriate operating hours Provide adequate buffer and/or planting of trees Others, specify 	 Regularly monitor for presence/absence of complaints Regular monitoring of buffer zones 	✓ Cost integrated in the construction/ operation cost
PEOPLE				
 Displacement of residents in the project site and within its vicinity Displacement of Indigenous People Enhanced employment 	Size of population of host barangay: □ ≤ 1,000 persons ☑ >1,000 and ≤ 5,000persons □ >5,000person	relocation/disturbance compensation packages	 Regularly monitor for presence/absence of complaints Regular coordination with LGU Others, specify 	✓ Cost integrated in the construction/ operation cost

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
 and/or livelihood opportunities □ Reduced employment and/or livelihood opportunities ☑ Increased revenues for LGU ☑ Disruption/Competitio n in delivery of public services (e.g., education, peace and order, etc.) ☑ Enhanced delivery of public services (e.g., education, peace and order, etc.) 	Classification of host barangay: □ Urban ☑ Rural Available services within/near the host barangay: ☑ Schools (e.g. elementary, high school, college) ☑ Health facilities (e.g., clinics, hospitals, etc.) ☑ Peace and order (e.g.,	obligations ✓ Regular coordination with LGU ✓ Prior consultation & coordination to minimize disruption on daily domestic activities & respect for IP rights and cultural practices ✓ Ensure participation of IPs in consultations and dialogues ✓ Provide appropriate traffic/warning signs, lighting, etc		
order, etc.) Increase in traffic volume and worsening of traffic flow	police outpost, brgy. Tanod, etc.) ☑ Recreation and sports facilities	 Others, specify 		
 Impacts on community health and safety Others, specify 	Others, specify	 Regular coordination with LGU Provide appropriate warning signs, lighting and barricades, whenever 	 Regularly monitor for presence/absence of complaints Regular coordination with LGU 	✓ Cost integrated in the construction/ operation cost



Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
		practicable ☑ Observe proper housekeeping ☑ Provide on-site medical services for any emergency. ☑ Participate in public awareness programs on health and safety ☑ Implement appropriate safety programs for both community and workers ☑ Others, specify	 ✓ Regularly monitor submission of reports to concerned agency ✓ Others, specify 	

III. ABANDONMENT / DECOMMISSIONING/REHABILITATION POLICIES AND GENERIC GUIDELINES

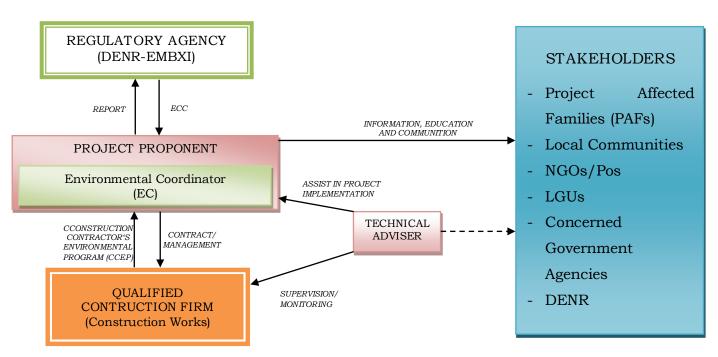
Abandonment Plan:

After the construction of FARM-TO-MARKET ROAD AND BRIDGE OF MIKIT, dismantling of temporary structures and equipment will be immediately commenced. Clearing of debris and solid waste materials generated from the during construction phase within and outside the periphery of the newly accomplish infra project will also start.

Reusable/recyclable scaffoldings and lumbers will be re-used to other resettlement project of this province. Residual waste materials will be dump to the controlled dumpsite or sanitary landfill of the municipality.

Any change/modification/deviation to be made on the project, the concerned agency will be officially informed. The project will be turned-over to the concerned beneficiaries upon completion of the project.

IV. INSTITUTIONAL PLAN FOR EMP IMPLEMENTATION:



Organization Chart:

PROVINCIAL GOVERNMENT OF DAVAO ORIENTAL | INITIAL ENVIRONMENTAL EXAMINATION (IEE) CHECKLIST

SWORN STATEMENT OF ACCOUNTABILITY OF THE PROPONENT

This is to certify that all the information and commitments in this Initial Environmental Examination (IEE) Checklist Report are accurate and complete to the best of my knowledge.

By the authority vested in me by the Provincial Government of Davao Oriental as Provincial Governor, I hereby commit to ensure implementation of all commitments, mitigating measures and monitoring requirements indicated in this IEE Checklist Report as well as the following:

- Conform to pertinent provisions of applicable environmental laws e.g., R.A. No. 6969 (*Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990*), R.A. No. 9003 (*Ecological Solid Waste Management Act of 2000*), R.A. No. 9275 (*Philippine Clean Water Act of 2004*), and R.A. No. 8749 (*Philippine Clean Air Act of 1999*).
- Abide and conform to LGU development plans and guidelines.
- Promptly pay local taxes and other financial obligations.
- Regularly submit reports to concerned agencies.

I hereby bind myself to answer any penalty that may be imposed arising from any misrepresentation or failure to state material information in this IEE Checklist.

CORAZON N. MALANYAON

NAME OF PROPONENT HEAD

Governor

Provincial Government of Davao Oriental

SUE	SCRIBED	AND SWORN	I TO b	efore me this	5	_ day of	201	affiant
exhibiting	his/her	Community	Tax	Certificate	No.		issue	ed at
		on						

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Page No.	

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