ROAD AND BRIDGE PROJECTS

INITIAL ENVIRONMENTAL EXAMINATION (IEE) CHECKLIST
for

REHABILITATION OF SAN ISIDRO – PAG ORING NUEVO FARM TO MARKET ROAD
Project Name or Title

Below is the IEE Checklist Report for Road and Bridge Projects.
Please check applicable project category:

✓	Projects	Project Size Parameter	Corresponding Project Size/Threshold
✓	Bridges and viaducts, new construction	length	≥ 80 m but < 10.0 km
	Roads, new construction, widening (including RO-RO facilities)	length with no critical slope, OR length with critical slope	≥ 2 km but < 20.0 km, OR ≥ 2 km but < 10.0 km
	Elevated roads, flyover/cloverleaf/ interchanges		Regardless of length and width
	Tunnels and sub-grade roads and railways	length	< 1.0 km
	Pedestrian passages		All underpass projects

For ECC applications, this IEE Checklist Report shall be submitted with:

- Proof of Compatibility with the existing Land Use Plan
- Proof of Authority over the Project Site
- Accountability Statements of Proponent (see attached form) and the Preparer (if any, following Annexes 2-22 of Revised Procedural Manual for DAO 2003-30)
- Photographs or plates/vicinity map of the project site showing impact areas and affected areas and communities
- Duly Accomplished Project Environmental Monitoring & Audit Prioritization Scheme (PEMAPS) Questionnaire (see Annex 2-7d of Revised Procedural Manual for DAO 2003-30)

(No other documents shall be required as pre-requisite to ECC applications per DENR MC 2010-14)

Read the questions carefully and write the required information on the blank spaces provided or otherwise check (✔) the appropriate boxes □ or parenthesis ( ). Boxes with check marks(☑) are automatically required. Use additional sheets if necessary and indicate this in the appropriate space.

Project proponents are strongly **discouraged** to engage the services of consultants/facilitators/preparers to accomplish/fill-up the IEE Checklist Report Form. The Report Forms have been designed to be user-friendly.

Furthermore, EMB Regional Office is required to complete the processing of an ECC application using the IEE Checklist Report within twenty (20) working days upon receipt for duly-accomplished forms with complete attachments

Misleading or erroneous answers are basis for legal actions and/or denial of ECC issuance.

PROJECT FACT SHEET

Project Name:	Rehabilitation of San Isidro – Pag Oring Nuevo Farm to Market Road
Project Location:	Libmanan, Camarines Sur
Road Width :	5 meter
Road/Bridge Length :	6.0 kms
Project Proponent:	Provincial Government of Camarines Sur
Office Address:	Cadlan. Pili, Camarines Sur
Contact Person:	Felipe Vargas
Designation:	PPMIU Coordinator
Contact Information	
Telephone Number:	_____
Fax Number:	_____
Mobile Number:	_____
E-mail Address:	_____

I. PROJECT DESCRIPTION

1.1 PROJECT LOCATION AND AREA: Street Name, Barangay, and Municipality/City, Province

_____
_____
_____

See attached vicinity map/s and photographs of the project site including alignment and design.

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

Perimeter/Boundary points (based on OCT/TCT/etc)	Longitude	Latitude

1.2 PROJECT COMPONENTS

Facilities	Length / Area (meters)	Specification/Description/Remarks
1. Road	6,000	5,509.7m x 5m PCCP and Improvement of 568.6 l.m. x 2.5m & 206 l.m. x 5m shouldering
2. Intersections		
3. Bridge/s		
4. Access roads/Ramp		
5. Drainage facilities (i.e. Reinforced Concrete Box Culverts (RCBC);Reinforced Concrete Pipe Culverts (RCPC), others)	1 line	By 7m x 0.910m dia. RCPC
6. Associated facilities (i.e. Guardrails, Traffic signs, etc.)	26 units	Road warning signs (triangular)
7. Solid waste management facility		
8. Others, please specify _____ _____		

(Use additional sheets if needed)

1.3 UTILITIES/REQUIREMENTS (Construction Phase):

Utilities	Source	Estimated Demand/Consumption
Power/Electricity **(Total)**	Casureco 1	20 KWh
Power/Electricity **(From Renewable Energy Sources)**		KWh
Water **(Total)** (Fill-up table below if water is not obtained from the local water utility)		m^3/day
Water **(Rainwater Collection System)**		m^3/day

Water Source
[√] ground water [ ] well [√] spring [ ] others: _____

[√] Surface water [√] river [ ] lake [ ] others: _____

Location of water source: Pag Oring/Malinao, Libmanan,Camarines Sur
(Sitio/Zone, Barangay, Municipality/City, Province, Region)

Energy/Water Efficiency

Utilities	Estimated Savings	Proposed Efficiency/Conservation Measures
Power/Electricity	5 KWh	Limit use of air-conditioning unit and halogen lights during night time
Water	m^3/day	

1.4 MANPOWER

a. Construction Phase

Manpower Requirement	Expertise/Skills	Total
Skilled	**Foreman/Carpenter/Mason/Equipment and Mechanical Operators**	**60**
Unskilled	**Laborers/Survey Aide/ Equipment Operator Helpers**	**124**

1.5 INDICATIVE PROJECT COST

Project Cost (PhP): _____

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 _____ Actual land uses w/in 1km radius: ☐ Residential ☐ Commercial/ Institutional ☐ Industrial ☐ Agricultural/ Recreational ☐ Protected Areas ☐ Others _____	☑ See attached proof of compatibility with land use		
☐ 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 (0-3%) ☐ gently sloping to rolling (3-18%) ☐ steep (>18%) Is the project site located in an area identified by MGB/PAGASA/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 _____ ☐ Compliance with the DENR Administrative Order No. **2003-30** and DENR Administrative Order No. 2000-28, Implementing Guidelines on Engineering Geological and Geo-hazard Assessment (EGGA).	☐ Regular inspection of slope protection measures in erosion-prone areas ☐ Regular inspection for new eroded areas near the site ☐ Others (Pls. specify): _____	☐ Slope/ Erosion Control Cost: _____ ☐ Others, specify _____ _____
☑ Soil/Land contamination due to improper solid waste disposal	Existing soil type in the area: ☐ sandy ☐ clay ☐ sandy-loam ☐ Others, specify _____	☑ 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 ☐ Implement proper collection, labeling and storage of hazardous waste ☐ Provide receptacles / bins for solid wastes	☑ Daily inspection of waste/recycling bins for segregation ☑ Daily inspection for presence of mixed garbage in the facility ☑ Weekly inspection of waste accumulated ☐ 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
		☐ Coordinate with the municipal / city waste 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/structures? ☐ 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
WATER				
☐ Increased siltation due to project activities ☐ Water quality degradation ☐ Others, specify _____ _____	Specify nearest/receiving water body: _____ Distance to nearest/receiving water body: ☐ 0 to less than 0.5 km ☐ 0.5 to 1 km	☑ 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	Regular (ocular) inspection of: ☐ Drainage / canal systems ☐ Sanitation facilities Regular (ocular) inspection of water body for:	☑ Cost integrated in the construction/ operation cost

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
	☐ 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 water, specify classification: ☐ SA ☐ SB ☐ SC ☐ SD Current Water Use: ☐ Fishery ☐ Tourist Zone / Park ☐ Recreational ☐ Industrial ☐ Agricultural	☐ Set up silt trap**(Gabions, Fascines)**/settling ponds to minimize downstream siltation ☐ Others (Pls. specify): _____	☐ Turbidity and/or silted condition ☐ Floating wastes or debris	
	Distance of project area to the nearest well used: ☐ 0 to less than 0.5 km ☐ 0.5 to 1 km ☐ More than 1 km			

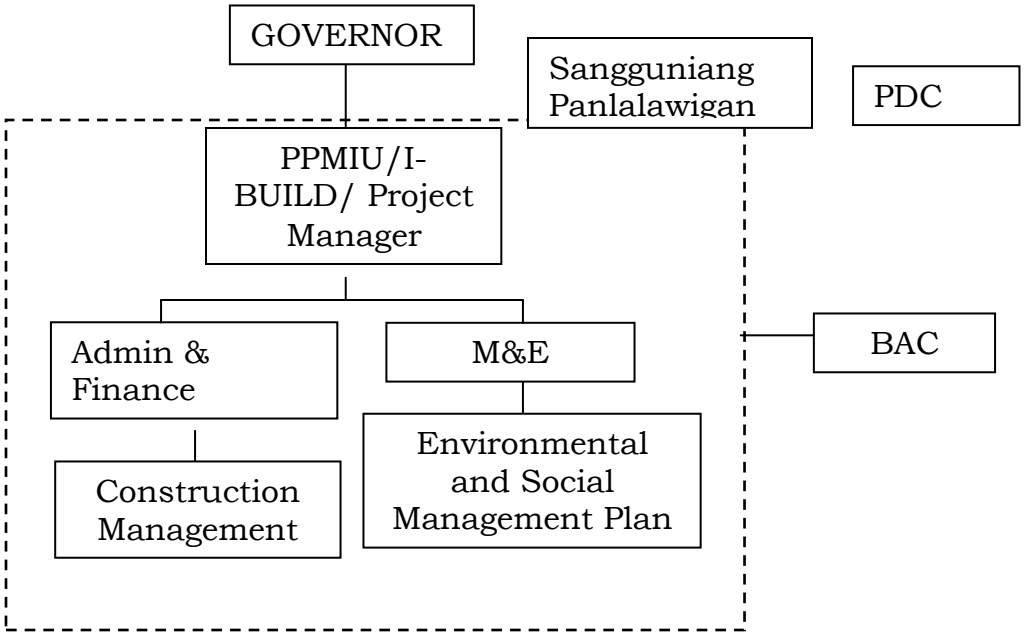
Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
	Use of the nearest well: ☐ Drinking/Domestic ☐ Industrial ☐ Agricultural			
☐ Competition in water use ☐ Depletion of water resources	Size of population using receiving surface water: ☐ ≤ 1,000 persons ☐ >1,000 and ≤ 5,000persons ☐ >5,000person 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/PAGASA 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: ☐ 0 to less than 0.5 km ☐ 0.5 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
☐ Nuisance due to noise generation	Distance to nearest community: ☐ 0 to less than 0.5 km ☐ 0.5 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

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
PEOPLE				
☐ Displacement of residents in the project site and within its vicinity ☐ Displacement of Indigenous People ☐ Enhanced employment and/or livelihood opportunities ☐ Reduced employment and/or livelihood opportunities ☐ Increased revenues for LGU ☐ Disruption/Competition in delivery of public services (e.g., education, peace and order, etc.) ☐ Enhanced delivery of public services (e.g., education, peace and order, etc.) ☐ Increase in traffic volume and worsening of traffic flow	Size of population of host barangay: ☐ ≤ 1,000 persons ☐ >1,000 and ≤ 5,000persons ☐ >5,000person 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., police outpost, brgy. Tanod, etc.) ☐ Recreation and sports facilities ☐ Others, specify: _____	☐ Provide relocation/disturbance compensation packages ☑ Prioritize local residents for employment ☑ Promptly pay local taxes and other financial 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 ☐ Others: specify _____	☑ 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
☐ Impacts on community health and safety ☐ Others, specify _____ _____		☑ Regular coordination with LGU ☑ Provide appropriate warning signs, lighting and barricades, whenever 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 for presence/absence of complaints ☑ Regular coordination with LGU ☑ Regularly monitor submission of reports to concerned agency ☐ Others, specify _____	☑ Cost integrated in the construction/ operation cost

III. INSTITUTIONAL PLAN FOR EMP IMPLEMENTATION



Attach design/plan/alignment of project (with dimensions and descriptions)

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 CAMARINES SUR** as **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 with 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 with 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.

MIGUEL LUIS R. VILLAFUERTE
Governor
Provincial Government of Camarines Sur

SUBSCRIBED AND SWORN TO before me this _____ day of _____ 201__, affiant exhibiting his/her Community Tax Certificate No. _____ issued at _____ on _____.

Doc. No. _____
Page No. _____
Book No. _____
Series of _____