

## ROAD AND BRIDGE PROJECTS

### INITIAL ENVIRONMENTAL EXAMINATION (IEE) CHECKLIST

For  
IMPROVEMENT OF BASANG HAMOG, PANTOC BULAC, BULAC  
FARM TO MARKET ROADS

Project Name or Title

This IEE Checklist Report shall be used for proposed **ROAD AND BRIDGE PROJECTS** to be located within **Environmentally Critical Areas (ECA)**.

Please check applicable project category:

✓	Projects	Project Size Parameter	Corresponding Project Size/Threshold
<input type="checkbox"/>	Bridges and viaducts, new construction	length	≥ 80 m but < 10.0 km
<input checked="" type="checkbox"/>	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 <b>≥ 2 km but &lt; 10.0 km</b>
<input type="checkbox"/>	Elevated roads, flyover/cloverleaf/ interchanges		Regardless of length and width
<input type="checkbox"/>	Tunnels and sub-grade roads and railways	length	< 1.0 km
<input type="checkbox"/>	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**

IMPROVEMENT/REHABILITATION OF PANTOC BULAC, BULAC, TAGAYTAY,  
TABACAO AND BASANG HAMOG FARM TO MARKET ROADS

<b>Project Name:</b>	_____
<b>Project Location:</b>	TALAVERA, NUEVA ECIJA _____
<b>Road/Bridge Width :</b>	8-10 METERS _____
<b>Road/Bridge Length :</b>	3,702.85 METERS _____
<b>Project Proponent:</b>	MUNICIPALITY OF TALAVERA _____
<b>Office Address:</b>	QUEZON ST., PAG-ASA DIST., TALAVERA, NUEVA ECIJA
<b>Contact Person:</b>	NERIVI S. MARTINEZ _____
<b>Designation:</b>	MUNICIPAL MAYOR _____
<b>Contact Information</b>	
<b>Telephone Number:</b>	(044) 940-1316 _____
<b>Fax Number:</b>	_____ _____
<b>Mobile Number:</b>	_____ _____
<b>E-mail Address:</b>	_____ _____

**I. PROJECT DESCRIPTION**

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

BARANGAYS PANTOC BULAC, BULAC, AND BASANG HAMOG, TALAVERA, NUEVA ECIJA

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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
	SEE ATTACHED	

**1.2 PROJECT COMPONENTS**

Facilities	Length / Area (meters)	Specification/Description/Remarks
1. Road	3702.85	FARM TO MARKET ROAD
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)		
6. Associated facilities (i.e. Guardrails, Traffic signs, etc.)		
7. Solid waste management facility		
8. Others, specify _____		

*(Use additional sheets if needed)*

**1.3 UTILITIES/REQUIREMENTS (Construction Phase):**

Utilities	Source	Estimated Demand/Consumption
Power/Electricity <b>(Total)</b>		KWh
Power/Electricity <b>(From Renewable Energy Sources)</b>		KWh
Water <b>(Total)</b> <small>(Fill-up table below if water is not obtained from the local water utility)</small>		m <sup>3</sup> /day
Water <b>(Rainwater Collection System)</b>		m <sup>3</sup> /day

Water Source  
 ground water     well     spring     others: \_\_\_\_\_  
 Surface water     river     lake     others: \_\_\_\_\_

Location of water source  
 \_\_\_\_\_  
*(Sitio/Zone, Barangay, Municipality/City, Province, Region)*

**Energy/Water Efficiency**

<b>Utilities</b>	<b>Estimated Savings</b>	<b>Proposed Efficiency/Conservation Measures</b>
Power/Electricity	KWh	
Water	m <sup>3</sup> /day	

**1.4 MANPOWER****a. Construction Phase**

<b>Manpower Requirement</b>	<b>Expertise/Skills</b>	<b>Total</b>
	SEE ATTACHED	

**1.5 INDICATIVE PROJECT COST**

Project Cost (Php): 31,201,589.95

II. ENVIRONMENTAL IMPACTS AND MANAGEMENT PLAN

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
<b>LAND</b>				
<input checked="" type="checkbox"/> Consistency with land use	Current land use w/in 1km radius (as per zoning ordinance): <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial/ Institutional <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Agricultural/ Recreational <input type="checkbox"/> Protected Areas <input type="checkbox"/> Others, specify _____  Actual land uses w/in 1km radius: <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial/ Institutional <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Agricultural/ Recreational <input type="checkbox"/> Protected Areas <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> See attached proof of compatibility with land use		
<input type="checkbox"/> Disturbance to wildlife due to vegetation clearing	Existing vegetation in the area: <input type="checkbox"/> Forestland <input type="checkbox"/> Marshland <input type="checkbox"/> Grassland <input type="checkbox"/> Mangrove <input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Others, specify <u>RICE/VEGETABLE</u>	<input checked="" type="checkbox"/> Compliance with conditions of DENR/LGU SLUP, Tree Cutting Permit, ROW, PCA Permit <input checked="" type="checkbox"/> Limit land clearing as much as possible <input checked="" type="checkbox"/> Provide temporary fencing to vegetation that will be retained <input checked="" type="checkbox"/> Promote restoration of damaged or destroyed vegetation where possible (e.g., road side tree planting);	<input checked="" type="checkbox"/> Annual inspection of area replanted/ revegetated	<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
<input type="checkbox"/> Change in surface landform/ topography/ terrain/slope <input checked="" type="checkbox"/> Soil Erosion	<p>Slope:</p> <input checked="" type="checkbox"/> flat (0-3%) <input type="checkbox"/> gently sloping to rolling (3-18%) <input type="checkbox"/> steep (>18%)	<input checked="" type="checkbox"/> Provide erosion control and slope protection measures <input type="checkbox"/> Designate a Spoils Storage Area, with topsoil set aside for later use and allow maximum re-use of spoils <input checked="" type="checkbox"/> Construction during dry season <input checked="" type="checkbox"/> Stabilization of embankment with grasses, trees or other soil cover /construction of rip-rap <input type="checkbox"/> Others, specify _____ <input checked="" type="checkbox"/> 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).	<input checked="" type="checkbox"/> Regular inspection of slope protection measures in erosion-prone areas <input checked="" type="checkbox"/> Regular inspection for new eroded areas near the site <input type="checkbox"/> Others, specify _____	<input type="checkbox"/> Slope/ Erosion Control Cost: _____ <input type="checkbox"/> Others, specify _____
<input checked="" type="checkbox"/> Soil/Land contamination due to improper solid waste disposal	<p>Existing soil type in the area:</p> <input type="checkbox"/> sandy <input type="checkbox"/> clay <input type="checkbox"/> sandy-loam <input type="checkbox"/> Others, specify <u>MALIGAYA SILT LOAM</u>	<input checked="" type="checkbox"/> Implementation of the Ecological Solid Waste Management Plan (ESWMP); <input type="checkbox"/> Set-up temporary fence around the construction area <input checked="" type="checkbox"/> Implement re-use and recycling of waste materials <input checked="" type="checkbox"/> Implement proper segregation, collection and disposal of domestic wastes in designated areas <input type="checkbox"/> Implement proper collection, labeling and storage of hazardous waste <input type="checkbox"/> Provide receptacles / bins for solid wastes <input type="checkbox"/> Coordinate with the municipal / city waste	<input checked="" type="checkbox"/> Daily inspection of waste/recycling bins for segregation <input checked="" type="checkbox"/> Daily inspection for presence of mixed garbage in the facility <input checked="" type="checkbox"/> Weekly inspection of waste accumulated <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
		collectors <input type="checkbox"/> Engage third party company for waste collection <input type="checkbox"/> Others, specify CONSTRUCTION WASTE MATERIALS WILL IMMEDIATELY BE GIVEN TO PROJECT'S BENEFICIARIES.		
<input type="checkbox"/> Encroachment into protected areas or ecologically-sensitive areas	Is the project area near protected areas or ecologically-sensitive areas? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Obtain appropriate permits/clearances from concerned agencies <input type="checkbox"/> Provide adequate buffer <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Regular coordination with concerned agencies	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
<input type="checkbox"/> Impairment of visual aesthetics <input type="checkbox"/> Devaluation of land values	Presence of visually significant landforms/landscape/structures? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Implement landscaping and other beautification measures <input type="checkbox"/> Provide adequate buffer <input checked="" type="checkbox"/> Compensate adjacent property owners <input type="checkbox"/> Others, specify _____	<input type="checkbox"/> Regular inspection of landscaping and other beautification activities <input type="checkbox"/> Regular monitoring of buffer zones <input checked="" type="checkbox"/> Regularly monitor presence/absence of complaints from adjacent property owners	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
<b>WATER</b>				
<input type="checkbox"/> Increased siltation due to project activities <input checked="" type="checkbox"/> Water quality degradation <input type="checkbox"/> Others, specify _____	Specify nearest/receiving water body: _____ TALAVERA RIVER Distance to nearest/receiving water body: <input checked="" type="checkbox"/> 0 to less than 0.5 km <input checked="" type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km If nearest/receiving water body is fresh water, specify classification:	<input checked="" type="checkbox"/> Set-up proper and adequate sanitary facilities <input checked="" type="checkbox"/> Strictly require the contractor and its workers to observe proper waste disposal and proper sanitation <input checked="" type="checkbox"/> Strictly observe proper waste handling and disposal <input type="checkbox"/> Set up silt trap(Gabions, Fascines)/settling ponds to minimize downstream siltation <input type="checkbox"/> Others, specify _____	Regular (ocular) inspection of: <input type="checkbox"/> Drainage / canal systems <input type="checkbox"/> Sanitation facilities Regular (ocular) inspection of water body for: <input type="checkbox"/> Turbidity and/or silted condition <input checked="" type="checkbox"/> Floating wastes or debris	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
	<input type="checkbox"/> AA <input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> D    Between Class C and D  If nearest/receiving water body is coastal or marine water, specify classification: <input type="checkbox"/> SA <input type="checkbox"/> SB <input type="checkbox"/> SC <input type="checkbox"/> SD  Current Water Use: <input type="checkbox"/> Fishery <input type="checkbox"/> Tourist Zone / Park <input type="checkbox"/> Recreational <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural			
	Distance of project area to the nearest well used: <input type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input checked="" type="checkbox"/> More than 1 km  Use of the nearest well: <input type="checkbox"/> Drinking/Domestic <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Agricultural			



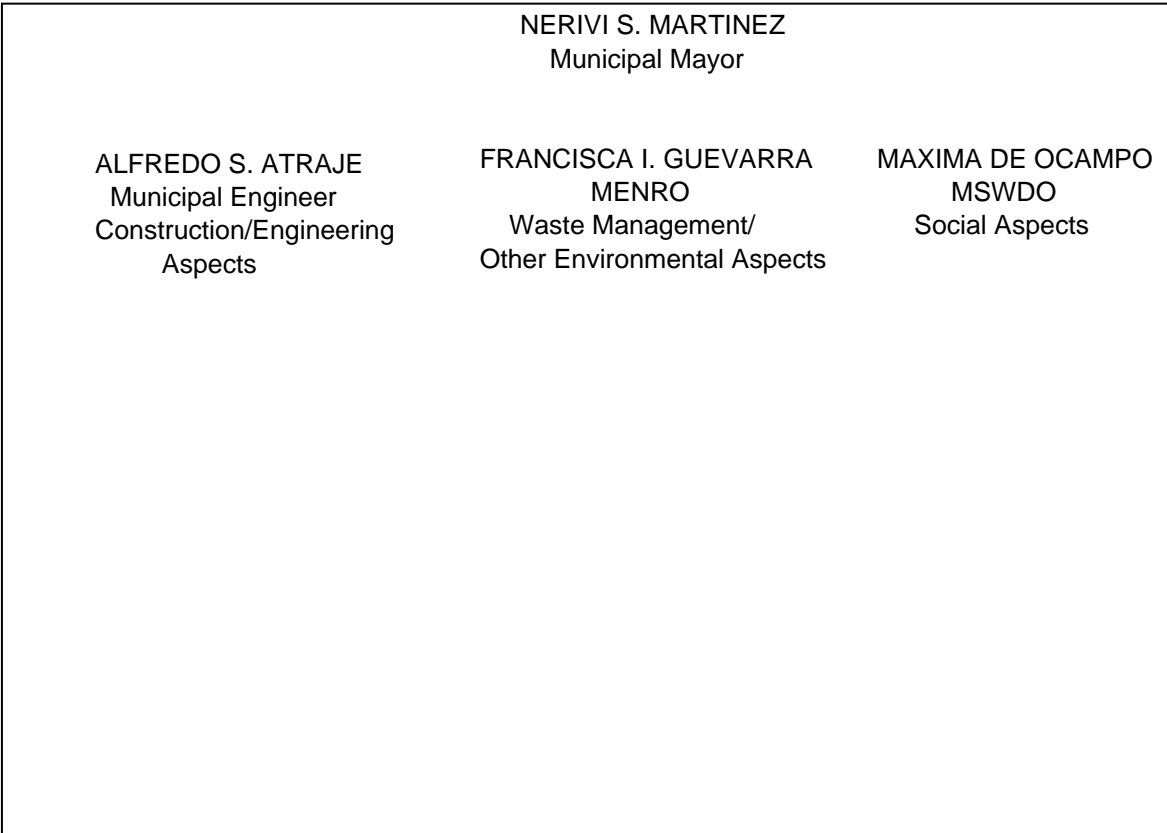
Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
<input checked="" type="checkbox"/> Competition in water use <input type="checkbox"/> Depletion of water resources	Size of population using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

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
<b>AIR / NOISE</b>				
<input checked="" type="checkbox"/> Air quality degradation	Distance to nearest community: <input type="checkbox"/> 0 to less than 0.5 km <input checked="" type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km	<input checked="" type="checkbox"/> Properly operate and maintain all emission sources (e.g. vehicles, generator, etc) <input type="checkbox"/> Install when applicable, the appropriate air pollution control device/s <input checked="" type="checkbox"/> Strictly enforce good housekeeping practices <input checked="" type="checkbox"/> Control vehicle speed to lessen suspension of road dust <input checked="" type="checkbox"/> Conduct water spraying to suppress dust sources and minimize discomfort to nearby residents <input type="checkbox"/> Use covered vehicles to deliver materials that may generate dust <input type="checkbox"/> Other, specify _____	<input checked="" type="checkbox"/> Regularly monitor for presence/absence of complaints  Regular (ocular) inspection of: <input checked="" type="checkbox"/> Absence of white or black smoke from vehicles, heavy equipment, generator, etc. <input type="checkbox"/> Presence of truck cover during deliveries	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
<input type="checkbox"/> Nuisance due to noise generation	Distance to nearest community: <input type="checkbox"/> 0 to less than 0.5 km <input checked="" type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km	<input checked="" type="checkbox"/> Properly operate and maintain all noise sources (e.g. vehicles, generator, etc) <input type="checkbox"/> Install when applicable, the appropriate noise control device/s (e.g., mufflers, silencer, sound barriers, etc.) <input checked="" type="checkbox"/> Implement appropriate operating hours <input type="checkbox"/> Provide adequate buffer and/or planting of trees <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Regularly monitor for presence/absence of complaints <input type="checkbox"/> Regular monitoring of buffer zones	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
<b>PEOPLE</b>				
<input type="checkbox"/> Displacement of residents in the project site and within its vicinity <input type="checkbox"/> Displacement of	Size of population of host barangay: <input type="checkbox"/> ≤ 1,000 persons <input type="checkbox"/> >1,000 and ≤ 5,000persons <input checked="" type="checkbox"/> >5,000person	<input type="checkbox"/> Provide relocation/disturbance compensation packages <input checked="" type="checkbox"/> Prioritize local residents for employment <input checked="" type="checkbox"/> Promptly pay local taxes and other financial obligations	<input checked="" type="checkbox"/> Regularly monitor for presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with LGU	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
<p>Indigenous People</p> <p><input checked="" type="checkbox"/> Enhanced employment and/or livelihood opportunities</p> <p><input type="checkbox"/> Reduced employment and/or livelihood opportunities</p> <p><input type="checkbox"/> Increased revenues for LGU</p> <p><input type="checkbox"/> Disruption/Competition in delivery of public services (e.g., education, peace and order, etc.)</p> <p><input checked="" type="checkbox"/> Enhanced delivery of public services (e.g., education, peace and order, etc.)</p> <p><input type="checkbox"/> Increase in traffic volume and worsening of traffic flow</p>	<p>Classification of host barangay:</p> <p><input type="checkbox"/> Urban</p> <p><input checked="" type="checkbox"/> Rural</p> <p>Available services within/near the host barangay:</p> <p><input checked="" type="checkbox"/> Schools (e.g. elementary, high school, college)</p> <p><input checked="" type="checkbox"/> Health facilities (e.g., clinics, hospitals, etc.)</p> <p><input checked="" type="checkbox"/> Peace and order (e.g., police outpost, brgy. Tanod, etc.)</p> <p><input type="checkbox"/> Recreation and sports facilities</p> <p><input type="checkbox"/> Others, specify _____</p>	<p><input checked="" type="checkbox"/> Regular coordination with LGU</p> <p><input type="checkbox"/> Prior consultation &amp; coordination to minimize disruption on daily domestic activities &amp; respect for IP rights and cultural practices</p> <p><input type="checkbox"/> Ensure participation of IPs in consultations and dialogues</p> <p><input type="checkbox"/> Provide appropriate traffic/warning signs, lighting, etc</p> <p><input type="checkbox"/> Others, specify _____</p>	<p><input type="checkbox"/> Others, specify _____</p>	
<p><input checked="" type="checkbox"/> Impacts on community health and safety</p> <p><input type="checkbox"/> Others, specify _____</p>	<p>_____</p>	<p><input checked="" type="checkbox"/> Regular coordination with LGU</p> <p><input checked="" type="checkbox"/> Provide appropriate warning signs, lighting and barricades, whenever practicable</p> <p><input checked="" type="checkbox"/> Observe proper housekeeping</p> <p><input checked="" type="checkbox"/> Provide on-site medical services for any emergency.</p> <p><input checked="" type="checkbox"/> Participate in public awareness programs on health and safety</p> <p><input checked="" type="checkbox"/> Implement appropriate safety programs for both community and workers</p> <p><input type="checkbox"/> Others, specify _____</p>	<p><input checked="" type="checkbox"/> Regularly monitor for presence/absence of complaints</p> <p><input checked="" type="checkbox"/> Regular coordination with LGU</p> <p><input checked="" type="checkbox"/> Regularly monitor submission of reports to concerned agency</p> <p><input type="checkbox"/> Others, specify _____</p>	<p><input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost</p>

**III. INSTITUTIONAL PLAN FOR EMP IMPLEMENTATION**

Organization Chart:



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

SEE ATTACHED

**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 MUNICIPALITY OF TALAVERA as MUNICIPAL MAYOR (Municipal Designation), 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.

**NERIVI S. MARTINEZ**

NAME OF PROPONENT HEAD

(Position) Municipal Mayor

(Company Name) Municipality of Talavera

SUBSCRIBED AND SWORN TO before me this 9th day of January 2014, affiant exhibiting his/her Community Tax Certificate No. \_\_\_\_\_ issued at \_\_\_\_\_ on \_\_\_\_\_.

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_