

LIVESTOCK ANIMAL INDUSTRY PROJECTS

II. ENVIRONMENTAL IMPACTS AND CLIMATE CHANGE RISK MANAGEMENT PLAN

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
LAND				
<input checked="" type="checkbox"/> Consistency with land use	Current land use w/in 1km radius (as per zoning ordinance): <input type="checkbox"/> Residential <input type="checkbox"/> Commercial/ Institutional <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural/ Recreational <input type="checkbox"/> Protected Areas <input type="checkbox"/> Others, specify Actual land uses w/in 1km radius: <input type="checkbox"/> Residential <input type="checkbox"/> Commercial/ Institutional <input type="checkbox"/> Industrial <input 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 checked="" type="checkbox"/> Limit project activities to what is compatible to the land use <input type="checkbox"/> Others, specify		

Project Name: _____

Initial Environmental Examination (IEE) Checklist Report Form for Livestock / Poultry Projects

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
<input type="checkbox"/> Land tenure / compatibility issue	Identify Land tenure / compatibility issues: <input type="checkbox"/> CARP <input type="checkbox"/> CADC/ CADT/ CALC/ CALT <input type="checkbox"/> ROW <input type="checkbox"/> Informal settlers <input type="checkbox"/> Ecologically sensitive or protected area <input type="checkbox"/> Others, specify	<input type="checkbox"/> Obtain appropriate clearances/ permits from concerned agencies <input type="checkbox"/> Provide relocation/disturbance compensation packages <input type="checkbox"/> Ensure participation of IPs in consultations and dialogues <input type="checkbox"/> Provide adequate buffer <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Regularly monitor presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with LGU or appropriate agencies <input type="checkbox"/> Others, specify	
<input type="checkbox"/> Disturbance to wildlife due to vegetation clearing <input type="checkbox"/> Pest/disease infestation	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 type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Comply 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 for vegetation that will be retained <input type="checkbox"/> Employ Integrated Pest Management System <input checked="" type="checkbox"/> Promote restoration of damaged or destroyed vegetation where possible (e.g., tree planting)	<input checked="" type="checkbox"/> Annual inspection of area replanted/re-vegetated <input checked="" type="checkbox"/> Others, specify	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
<input type="checkbox"/> Change in surface landform/ topography/ terrain/slope <input type="checkbox"/> Soil Erosion	Slope: <input type="checkbox"/> Flat (0-3%) <input type="checkbox"/> Gently sloping to rolling (3-18%) <input type="checkbox"/> Steep (>18%) Is the project site located in an area identified by MGB/ PAGASA/ PHIVOLCS as hazard prone? <input type="checkbox"/> Yes <input type="checkbox"/> No	Considering the natural hazards and climate projections in the area <input type="checkbox"/> Provide appropriate erosion control and slope protection measures <input type="checkbox"/> Employ appropriate soil erosion control and slope protection measures (e.g. contour farming, hedgerow planting, etc.) <input type="checkbox"/> Stabilization of embankment with grasses or other soil cover <input type="checkbox"/> Others, specify	<input type="checkbox"/> Regular inspection of slope protection measures in erosion-prone areas <input 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
Building of Structure and Improper solid waste disposal leading to <input checked="" type="checkbox"/> Impairment of visual aesthetics <input type="checkbox"/> Devaluation of land values	Solid Waste Management Scheme in the area: <input type="checkbox"/> SLF <input type="checkbox"/> MRF <input type="checkbox"/> Composting <input type="checkbox"/> Regular Collection of Solid Wastes Presence of visually significant landforms/landscape/structures? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Implement recovery re-use and recycling of waste materials <input checked="" type="checkbox"/> Provide receptacles / bins for solid wastes <input type="checkbox"/> Composting of Organic Wastes <input type="checkbox"/> Coordinate with the municipal / city waste collectors <input type="checkbox"/> Implement landscaping and other beautification measures <input type="checkbox"/> Provide adequate buffer <input type="checkbox"/> Compensate adjacent property owners <input type="checkbox"/> Others, please specify	<input checked="" type="checkbox"/> Daily inspection for presence of garbage in the facility <input checked="" type="checkbox"/> Weekly inspection of waste accumulated <input type="checkbox"/> Regular inspection of landscaping and other beautification activities <input type="checkbox"/> Regular monitoring of buffer zones <input type="checkbox"/> Regularly monitor presence/absence of complaints from adjacent property owners <input type="checkbox"/> Others, specify	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost																								
WATER																										
<input type="checkbox"/> Increased siltation due to project activities <input type="checkbox"/> Water quality degradation <input type="checkbox"/> Others, specify	Specify nearest/receiving water body: Distance to nearest/receiving water body: <input type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km Classification of nearest water body: <table border="1"> <tr> <td><input type="checkbox"/> Freshwater</td> <td><input type="checkbox"/> Marine/ coastal water</td> </tr> <tr> <td><input type="checkbox"/> AA</td> <td><input type="checkbox"/> SA</td> </tr> <tr> <td><input type="checkbox"/> A</td> <td><input type="checkbox"/> SB</td> </tr> <tr> <td><input type="checkbox"/> B</td> <td><input type="checkbox"/> SC</td> </tr> <tr> <td><input type="checkbox"/> C</td> <td><input type="checkbox"/> SD</td> </tr> <tr> <td><input type="checkbox"/> D</td> <td></td> </tr> </table>	<input type="checkbox"/> Freshwater	<input type="checkbox"/> Marine/ coastal water	<input type="checkbox"/> AA	<input type="checkbox"/> SA	<input type="checkbox"/> A	<input type="checkbox"/> SB	<input type="checkbox"/> B	<input type="checkbox"/> SC	<input type="checkbox"/> C	<input type="checkbox"/> SD	<input type="checkbox"/> D		<input checked="" type="checkbox"/> Set-up proper and adequate sanitary facilities <input 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"/> Provide wastewater treatment facility (e.g., septic tank, oil and water separator, etc.) <input type="checkbox"/> Provide biogas generator or similar waste treatment measures <input type="checkbox"/> Set up silt trap/settling ponds to minimize downstream siltation <input type="checkbox"/> Others, specify	Regular (ocular) inspection of: <input type="checkbox"/> Drainage / canal systems <input type="checkbox"/> Water treatment facility (i.e., grease trap, septic tank, etc.) Regular monitoring of the following: <table border="1"> <thead> <tr> <th>Parameter</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> pH</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> <tr> <td><input type="checkbox"/> TSS concentration</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> <tr> <td><input type="checkbox"/> BOD</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> <tr> <td><input type="checkbox"/> Color</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> </tbody> </table>	Parameter	Frequency	<input type="checkbox"/> pH	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input type="checkbox"/> TSS concentration	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input type="checkbox"/> BOD	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input type="checkbox"/> Color	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	
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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
	<p>Current Water Use:</p> <p><input type="checkbox"/> Fishery</p> <p><input type="checkbox"/> Tourist Zone / Park</p> <p><input type="checkbox"/> Recreational</p> <p><input type="checkbox"/> Industrial</p> <p><input type="checkbox"/> Agricultural</p> <p>Distance of project area to the nearest well used:</p> <p><input type="checkbox"/> 0 to less than 0.5 km</p> <p><input type="checkbox"/> 0.5 to 1 km</p> <p><input type="checkbox"/> More than 1 km</p> <p>Use of the nearest well:</p> <p><input type="checkbox"/> Drinking/Domestic</p> <p><input type="checkbox"/> Industrial</p> <p><input type="checkbox"/> Agricultural</p>			
<p><input type="checkbox"/> Competition in water use</p> <p><input type="checkbox"/> Depletion of water resources</p>	<p>Size of population using receiving surface water:</p> <p><input type="checkbox"/> ≤ 1,000 persons</p> <p><input type="checkbox"/> >1,000 and ≤ 5,000 persons</p> <p><input type="checkbox"/> >5,000 persons</p> <p>Current Use of water source :</p> <p><input type="checkbox"/> Fishery</p> <p><input type="checkbox"/> Tourist Zone / Park</p> <p><input type="checkbox"/> Recreational</p> <p><input type="checkbox"/> Industrial</p> <p><input type="checkbox"/> Agricultural</p> <p>Available/nearest water source.</p>	<p><input type="checkbox"/> Implement rainwater harvesting and similar measures as an alternative source of water</p> <p><input type="checkbox"/> Observe water conservation measures;</p> <p><input type="checkbox"/> Carefully select project site to avoid disruption of traditional water uses</p> <p><input type="checkbox"/> Obtain Water Permit from NWRB</p> <p><input type="checkbox"/> Improve efficiency of water supply and distribution system</p> <p><input type="checkbox"/> Others, specify</p>	<p><input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints</p> <p><input checked="" type="checkbox"/> Regular coordination with concerned agencies</p> <p><input checked="" type="checkbox"/> Regular monitoring for occurrences of water shortages</p> <p><input type="checkbox"/> Others, specify</p>	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
	<input type="checkbox"/> Deep well <input type="checkbox"/> Water district/LGU <input type="checkbox"/> Surface water <input type="checkbox"/> Others, specify			
<input type="checkbox"/> Increased occurrence of flooding	Is the project site located in an area identified by MGB/PAGASA as flood prone? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Use appropriate design for project facilities <input type="checkbox"/> Implement appropriate drainage system <input type="checkbox"/> Use appropriate technology (e.g., raised hand-pumps) to protect drinking water from flood contamination <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with concerned agencies <input checked="" type="checkbox"/> Regular monitoring for increased frequency of flooding <input type="checkbox"/> Others, specify	
AIR / NOISE				
<input type="checkbox"/> Nuisance due to generation of obnoxious/unpleasant odor <input type="checkbox"/> Air quality degradation <input type="checkbox"/> Nuisance due to noise generation	Distance to nearest community: <input type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km Is the wind direction blowing	<input type="checkbox"/> Properly operate and maintain all emission sources (e.g. vehicles, generator, etc) <input type="checkbox"/> Strictly enforce good housekeeping practices <input type="checkbox"/> Control vehicle speed to lessen suspension of road dust	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints Regular (ocular) inspection of: <input type="checkbox"/> Absence of white or black smoke from vehicles, generator, etc.	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
	towards the nearest community most of the year? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input 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"/> Regular clean-up of animal houses <input type="checkbox"/> Use environment-friendly deodorizer or odor masking substances <input type="checkbox"/> Use sprays with natural / microbial disinfectants <input type="checkbox"/> Provide adequate buffer and/or planting of trees <input type="checkbox"/> Others, specify	<input type="checkbox"/> Presence of truck cover during deliveries	
PEOPLE				
<input type="checkbox"/> Displacement of residents including indigenous people in the project site and within its vicinity <input type="checkbox"/> Enhanced employment and/or livelihood opportunities <input type="checkbox"/> Reduced employment and/or livelihood opportunities <input type="checkbox"/> Increased revenues for	Size of population of host barangay: <input type="checkbox"/> ≤ 1,000 persons <input type="checkbox"/> >1,000 and ≤ 5,000 persons <input type="checkbox"/> >5,000 persons <input type="checkbox"/> Indigenous People Size:	<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"/> Regular coordination with LGU <input type="checkbox"/> Conduct prior consultation and coordination to minimize disruption of daily domestic activities and to ensure respect for IP rights and cultural practices	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with LGU <input type="checkbox"/> Others, specify	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
LGU <input type="checkbox"/> Disruption/Competition in delivery of public services (e.g., education, peace and order, etc.) <input type="checkbox"/> Enhanced delivery of public services (e.g., education, peace and order, etc.) <input type="checkbox"/> Increase in traffic volume and worsening of traffic flow	Classification of host barangay: <input type="checkbox"/> Urban <input type="checkbox"/> Rural Employment/Livelihood Opportunity Rate in the host Municipality: <input type="checkbox"/> High <input type="checkbox"/> Low Description: Available services within/near the host barangay: <input type="checkbox"/> Schools (e.g., elementary, high school, college) <input type="checkbox"/> Health facilities (e.g., clinics, hospitals, etc.) <input type="checkbox"/> Peace and order (e.g., police outpost, Brgy. Tanod, etc.) <input type="checkbox"/> Recreation and sports facilities <input type="checkbox"/> Others, specify	<input type="checkbox"/> Ensure participation of IPs in consultations and dialogues <input type="checkbox"/> Provide appropriate traffic/warning signs, lighting, etc <input type="checkbox"/> Others, specify		