FISHERY / AQUACULTURE PROJECTS

II. ENVIRONMENTAL IMPACTS AND CLIMATE CHANGE RISK MANAGEMENT PLAN

Possible Environmental/Social	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
Impacts		Cost of preventive/mitigating construct	Remarks	
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 ✓ Limit project activities to what is compatible to the land use 	Actual land uses w/in 1km radius: Residential Commercial/ Institutional Industrial Agricultural/ Recreational Protected Areas Others, specify	
	Actual land uses w/in 1km radius: Residential Commercial/ Institutional Industrial Agricultural/ Recreational Protected Areas Others, specify			

Possible Environmental/Social	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
Impacts	Daseille Lifvironnent	Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		Kemarks
☐ Disturbance to wildlife due to vegetation clearing	Existing vegetation in the area: Forestland Marshland Grassland Mangrove Wetland Others, specify	 ✓ Comply with conditions of DENR/LGU SLUP, Tree Cutting Permit, ROW, PCA Permit ✓ Limit land clearing as much as possible ✓ Provide temporary fencing for vegetation that will be retained ✓ Promote restoration of damaged or destroyed vegetation where possible (e.g., tree planting) ☐ Provide adequate buffer zone 	 ✓ Annual inspection of area replanted/ re-vegetated ☐ Others, specify 	
 □ 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/PAG-ASA/ PHIVOLCS as hazard prone? Yes No	 □ Employ appropriate soil erosion control and slope protection measures (e.g. contour farming, hedgerow planting, etc.) considering the natural hazards and climate projections in the area □ Stabilization of embankment with grasses or other soil cover □ Construct during dry season □ Others, specify □ Comply with the DENR Administrative Order No. 2003-30 and DENR 	 □ Regular inspection of slope protection measures in erosion-prone areas □ Regular inspection for new eroded areas near the site □ Others, specify 	

Possible Environmental/Social	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
Impacts	Baseline Environment	Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		Remarks
		2000-28, Implementing Guidelines on Engineering Geological and Geo-hazard Assessment (EGGA).		
 ☐ 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 ☑ Regular monitoring for presence/absence of complaints from adjacent property owners 	

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
WATER				
□ Water quality degradation □ Others, specify	Current Water Use: Fishery Tourist Zone / Park Recreational Industrial Agricultural 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 Use of nearest well: Drinking/Domestic Industrial Agricultural	 ✓ Set up proper and adequate sanitary facilities ✓ Strictly observe proper waste handling and disposal 	Regular (ocular) inspection of: Drainage / canal systems Water treatment facility (i.e., grease trap, septic tank, etc.) Regular monitoring of the following: Parameter frequency BOD Annual Quarterly Monthly Color Annual Quarterly Monthly PH Annual Quarterly Monthly PH Annual Quarterly Monthly Annual Quarterly Monthly TSS Annual Quarterly Monthly TSS Concent ration Quarterly Monthly Monthly	
☐ 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	 ✓ Regular monitoring for presence/absence of complaints ✓ Regular coordination with concerned agencies 	Cost integrated in the construction/ operation cost

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
		 □ Regularly remove debris and other materials that may obstruct water flow □ Use appropriate technology (e.g., raised hand-pumps) to protect drinking water from flood contamination □ Others, specify 	Regular monitoring for increased frequency of flooding Others, specify	
 □ Displacement of residents in the project site and within its vicinity □ Displacement of Indigenous Peoples □ 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 	Size of population of host barangay:	 □ Provide relocation/disturbance compensation packages ☑ Prioritize local residents for employment ☑ Promptly pay local taxes and other financial obligations ☑ Regular coordination with LGU □ Prior consultation and coordination to minimize disruption on daily domestic activities & to ensure respect for IP rights and cultural practices □ Ensure participation of IPs in consultations and dialogues □ Provide appropriate traffic/warning signs, lighting, etc □ Others, specify 	 ✓ Presence/Absence of complaints ✓ Regular coordination with LGU Others, specify 	

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
public services (e.g., education, peace and order, etc.)				
 Increase in traffic volume and worsening of traffic flow 				
 Depletion of local fish populations by stocking of wild fry/fingerlings in ponds 				