

## RESORTS AND OTHER TOURISM / LEISURE PROJECTS

### II. ENVIRONMENTAL IMPACT AND MANAGEMENT PLAN

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost		
<b>LAND</b>				
<input checked="" type="checkbox"/> Consistency with land use	<p>Current land use w/in 1km radius (as per zoning ordinance):</p> <div style="margin-left: 20px;"> <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                     </div> <p>Actual land uses w/in 1km radius:</p> <div style="margin-left: 20px;"> <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                     </div>	<div style="margin-left: 20px;"> <input type="checkbox"/> See attached proof of compatibility with land use  <input type="checkbox"/> Limit project activities to what is compatible to the land use  <input type="checkbox"/> Others, specify                     </div>	<p>Actual land uses w/in 1km radius:</p> <div style="margin-left: 20px;"> <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                     </div>	

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost		
<input type="checkbox"/> Land tenure / compatibility issue	Identify 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 the following clearances/ permits from concerned agencies:  <input type="checkbox"/> Resettlement Plan prepared <input type="checkbox"/> Provide relocation/disturbance compensation packages <input type="checkbox"/> Ensure participation of IPs in consultations and dialogues <input type="checkbox"/> MOA prepared/signed <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 checked="" 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 type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Comply with conditions of DENR/LGU SLUP, Tree Cutting Permit, ROW, PCA Permit <input type="checkbox"/> Limit land clearing as much as possible <input type="checkbox"/> Provide temporary fencing for vegetation that will be retained <input type="checkbox"/> Promote restoration of damaged or destroyed vegetation where possible (e.g., tree planting) <input type="checkbox"/> Provide adequate buffer zone	<input checked="" type="checkbox"/> Annual inspection of area replanted/ re-vegetated <input type="checkbox"/> Others, specify	

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost		
<div><input type="checkbox"/> Change in surface landform/ topography/ terrain/slope</div> <div><input type="checkbox"/> Soil Erosion</div>	<div>Slope:<div><input type="checkbox"/> Flat (0-3%)</div><div><input type="checkbox"/> Gently sloping to rolling (3-18%)</div><div><input type="checkbox"/> Steep (&gt;18%)</div></div> <div>Is the project site located in an area identified by MGB/PAGASA/ PHIVOLCS as hazard prone?<div><input type="checkbox"/> Yes</div><div><input type="checkbox"/> No</div></div>	<div>Considering the natural hazards and climate projections in the area:<div><input type="checkbox"/> Employ erosion control and slope protection measures</div><div><input type="checkbox"/> Designate a spoils storage area, with topsoil set aside for later use and allow maximum re-use of spoils</div><div><input type="checkbox"/> Construct during dry season</div><div><input type="checkbox"/> Stabilize embankment with grasses or other soil cover</div><div><input type="checkbox"/> Conduct Engineering Geological and Geo-hazard Assessment (EGGA) and implement corresponding recommendation</div><div><input type="checkbox"/> Others, specify</div></div>	<div><input checked="" type="checkbox"/> Regular inspection of slope protection measures in erosion-prone areas</div> <div><input checked="" type="checkbox"/> Regular inspection for new eroded areas near the site</div> <div><input checked="" type="checkbox"/> Others, specify</div>	
<div>Improper solid waste disposal leading to:</div> <div><input type="checkbox"/> Impairment of visual aesthetics</div>	<div>Solid Waste Management Scheme in the area:<div><input type="checkbox"/> SLF</div><div><input type="checkbox"/> MRF</div><div><input type="checkbox"/> Composting</div><div><input type="checkbox"/> Regular Collection of Solid Wastes</div></div> <div>Presence of visually significant</div>	<div><input type="checkbox"/> Implement recovery re-use and recycling of waste materials</div> <div><input type="checkbox"/> Provide receptacles / bins for solid wastes</div> <div><input type="checkbox"/> Composting of Organic Wastes</div> <div><input type="checkbox"/> Coordinate with the municipal / city waste collectors</div> <div><input type="checkbox"/> Implement landscaping and other beautification measures</div>	<div><input checked="" type="checkbox"/> Daily inspection of waste handling including segregation in waste/recycling bins</div> <div><input checked="" type="checkbox"/> Weekly inspection of waste accumulation and disposal</div> <div><input type="checkbox"/> Regular inspection of landscaping and other beautification activities</div> <div><input type="checkbox"/> Regular monitoring of buffer zones</div> <div><input checked="" type="checkbox"/> Regular monitoring for</div>	



Possible Environmental/Social Impacts	Baseline Environment		Preventive/Mitigating Measures	Monitoring Parameters/Implementation		Remarks														
			<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost																	
	<input type="checkbox"/> D			<input checked="" type="checkbox"/> Oil and Grease	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly															
	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			<input checked="" type="checkbox"/> Total Coliform	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly															
	Distance of project area to the nearest well used: <input checked="" type="checkbox"/> 0 to less than 0.5 km <input checked="" type="checkbox"/> 0.5 to 1 km <input checked="" type="checkbox"/> More than 1 km			Regular monitoring of plant effluent:																
	Use of the nearest well: <input type="checkbox"/> Drinking/Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural			<table border="1"> <thead> <tr> <th>Parameter</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> pH</td> <td> <input type="checkbox"/> Annual  <input type="checkbox"/> Semi-annual  <input type="checkbox"/> Quarterly </td> </tr> <tr> <td><input checked="" type="checkbox"/> TSS concentration</td> <td> <input type="checkbox"/> Annual  <input type="checkbox"/> Semi-annual  <input type="checkbox"/> Quarterly </td> </tr> <tr> <td><input checked="" type="checkbox"/> BOD</td> <td> <input type="checkbox"/> Annual  <input type="checkbox"/> Semi-annual  <input type="checkbox"/> Quarterly </td> </tr> <tr> <td><input checked="" type="checkbox"/> Color</td> <td> <input type="checkbox"/> Annual  <input type="checkbox"/> Semi-annual  <input type="checkbox"/> Quarterly </td> </tr> <tr> <td><input checked="" type="checkbox"/> Oil and Grease</td> <td> <input type="checkbox"/> Annual  <input type="checkbox"/> Semi-annual  <input type="checkbox"/> Quarterly </td> </tr> <tr> <td><input checked="" type="checkbox"/> Total Coliform</td> <td> <input type="checkbox"/> Annual  <input type="checkbox"/> Semi-annual  <input type="checkbox"/> Quarterly </td> </tr> </tbody> </table>	Parameter		Frequency	<input checked="" type="checkbox"/> pH	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly	<input checked="" type="checkbox"/> TSS concentration	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly	<input checked="" type="checkbox"/> BOD	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly	<input checked="" type="checkbox"/> Color	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly	<input checked="" type="checkbox"/> Oil and Grease	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly	<input checked="" type="checkbox"/> Total Coliform	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly	
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Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost		
<div><input type="checkbox"/> Competition in water use</div> <div><input type="checkbox"/> Depletion of water resources</div>	<div>Size of population using proposed water source:</div> <div><input checked="" type="checkbox"/> ≤ 1,000 persons</div> <div><input checked="" type="checkbox"/> &gt;1,000 and ≤ 5,000 persons</div> <div><input checked="" type="checkbox"/> &gt;5,000 persons</div> <div>Current Use of water source :</div> <div><input type="checkbox"/> Fishery</div> <div><input type="checkbox"/> Tourist Zone / Park</div> <div><input type="checkbox"/> Recreational</div> <div><input type="checkbox"/> Industrial</div> <div><input type="checkbox"/> Agricultural</div> <div><input type="checkbox"/> Others, specify</div> <div>Available/nearest water source.</div> <div><input type="checkbox"/> Deep well</div> <div><input type="checkbox"/> Water district/LGU</div> <div><input type="checkbox"/> Surface water</div> <div><input type="checkbox"/> Others, specify</div>	<div><input checked="" type="checkbox"/> Implement rainwater harvesting and similar measures as an alternative source of water</div> <div><input checked="" type="checkbox"/> Observe water conservation measures</div> <div><input checked="" type="checkbox"/> Carefully select project site to avoid disruption of traditional water uses</div> <div><input checked="" type="checkbox"/> Obtain Water Permit from NWRB</div> <div><input checked="" type="checkbox"/> Improve efficiency of water supply and distribution system</div> <div><input checked="" type="checkbox"/> Use drought resistant species which require less water input and hence have less impact on water tables</div> <div><input type="checkbox"/> Others, specify</div>	<div><input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints</div> <div><input checked="" type="checkbox"/> Regular coordination with concerned agencies</div> <div><input checked="" type="checkbox"/> Regular monitoring for occurrences of water shortages</div> <div><input type="checkbox"/> Others, specify</div>	

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<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/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"/> Regularly remove debris and other materials that may obstruct water flow <input checked="" 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	
<b>AIR / NOISE</b>				
<input type="checkbox"/> Impact to Air quality	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 towards the nearest community most of the year? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input 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 type="checkbox"/> Strictly enforce good housekeeping practices <input type="checkbox"/> Control vehicle speed to lessen suspension of road dust <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"/> Others, specify	<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. <input type="checkbox"/> Presence of truck cover during deliveries	

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/Implementation	Remarks
		<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 type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km  Is the wind direction blowing towards the nearest community most of the year? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input 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 type="checkbox"/> Implement appropriate operating hours <input type="checkbox"/> Provide adequate buffer (e.g., <i>Perimeter planting of trees to serve as sound buffer and greenbelt</i> ) <input type="checkbox"/> Others, specify	<input type="checkbox"/> Regular monitoring for presence/absence of complaints <input type="checkbox"/> Regular monitoring of buffer zones <input type="checkbox"/> Quarterly monitoring of noise level	
<b>PEOPLE &amp; CULTURE</b>				
<input type="checkbox"/> Displacement of residents including indigenous people (if any) 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 LGU	Size of population of host barangay/s: <input type="checkbox"/> ≤ 1,000 persons <input type="checkbox"/> >1,000 and ≤ 5,000persons <input type="checkbox"/> >5,000person <input type="checkbox"/> Indigenous People Size:	<input type="checkbox"/> Provide relocation/disturbance compensation packages <input type="checkbox"/> Prioritize local residents for employment <input type="checkbox"/> Promptly pay local taxes and other financial obligations <input type="checkbox"/> Regular coordination with LGU <input type="checkbox"/> Conduct prior consultation and coordination to minimize disruption of	<input type="checkbox"/> Regular monitoring for presence/absence of complaints <input type="checkbox"/> Regular coordination with LGU <input type="checkbox"/> Others, specify	



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		<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost		
<div><input type="checkbox"/> Disruption/Competition in delivery of public services (e.g., education, peace and order, etc.)</div> <div><input type="checkbox"/> Enhanced delivery of public services (e.g., education, peace and order, etc.)</div> <div><input type="checkbox"/> Increase in traffic volume and worsening of traffic flow</div>	<div>Classification of host barangay:</div> <div><input type="checkbox"/> Urban</div> <div><input type="checkbox"/> Rural</div> <div>Employment/Livelihood Opportunity Rate in the host Municipality:</div> <div><input type="checkbox"/> High</div> <div><input type="checkbox"/> Low</div> <div><input type="checkbox"/> Description:</div> <div>Available services within/near the host barangay:</div> <div><input type="checkbox"/> Schools (e.g. elementary, high school, college)</div> <div><input type="checkbox"/> Health facilities (e.g., clinics, hospitals, etc.)</div> <div><input type="checkbox"/> Peace and order (e.g., police outpost, Brgy. Tanod, etc.)</div> <div><input type="checkbox"/> Recreation and sports facilities</div>	<div>daily domestic activities</div> <div><input type="checkbox"/> Ensure participation of IPs in consultations and dialogues &amp; consider IP rights and cultural practices in the provision of relocation/disturbance compensation packages</div> <div><input type="checkbox"/> Provide appropriate traffic/warning signs, lighting, etc</div> <div><input type="checkbox"/> Others, specify</div>		

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost		
	<input type="checkbox"/> Others, specify			
<input type="checkbox"/> Destruction/disturbance of physical cultural resources. <i>(✓ if project site has been identified to have such by NM, NHCP, NCAA and LGUs)</i>	Physical Cultural resources within the vicinity of the project site:	<input type="checkbox"/> Implement appropriate protocols based on NM, NHCP, NCAA and LGU guidelines including those for chance finds (if any). Specify:	<input type="checkbox"/> Regular coordination with NM, NHCP, NCAA and LGU	
<input type="checkbox"/> Impacts on community health and safety  <input type="checkbox"/> Safety Risks <input type="checkbox"/> Fire	Source of risks (please specify) <input type="checkbox"/> Flammable substances:       <input type="checkbox"/> Others, specify	<input type="checkbox"/> Regular coordination with LGU <input type="checkbox"/> Provide appropriate warning signs, lighting and barricades, whenever practicable <input type="checkbox"/> Observe proper housekeeping <input type="checkbox"/> Provide on-site medical services for any emergency. <input type="checkbox"/> Participate in public awareness programs on health and safety <input type="checkbox"/> Implement appropriate safety programs for both community and workers <input type="checkbox"/> Strictly comply with fire, safety and similar regulatory requirements <input type="checkbox"/> Strictly comply with requirements of RA 6969 <input type="checkbox"/> Others, specify	<input type="checkbox"/> Regular monitoring for presence/absence of complaints <input type="checkbox"/> Regular monitoring of buffer zones <input type="checkbox"/> Regular coordination with LGU <input type="checkbox"/> Regular submission of reports to concerned agency <input type="checkbox"/> Others, specify	

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost integrated in the construction /operation cost		