FOR RESORTS AND OTHER TOURISM PROJECTS

ENVIRONMENTAL MANAGEMENT PLAN

POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE	MITIGATING MEASURES	RATING/ PERFORMANCE OF MITIGATING MEASURES		
A. Construction Phase				
A.1 Site Development including excavation (Clearing and Grubbing)				
Degradation of water quality due to contamination from domestic wastewater	• Provision of portalets for construction workers Note: at least one (1) portalet for 60 workers where the number of male workers exceeds 500 (as per IRR-Industrial Hygiene, PD 856 Amending Administrative Order 111 Series of 1991)	100% no discharge of domestic wastewater to nearby bodies of water, soil, and subsoil		
	Note: at least one (1) portalet for 25 workers where the number of male workers exceeds 100 (as per IRR-Industrial Hygiene, PD 856 Amending Administrative Order 111 Series of 1991)			
	 Provision of septic tank or wastewater collection system for workers Collection of wastewater from portalets/septic tanks by third party shall be covered by a licensed/permit from LGU and with valid Discharge Permit for the wastewater treatment facility 			
Dust generation from site preparation	 Maintain a misty access road surface/project site by sprinkling of water at least twice (2x) a day during the dry season 	100% no dust generation		
Generation of spoils Potential siltation of	 Spoil materials shall be collected by third party collection with approved permit/clearance from LGU Trucks should be thoroughly washed before leaving from the project site to avoid the transfer of mud/dirt in the road Hauling trucks should be fully covered to avoid spillage of spoils generated from the grading and excavation activities. Proper onsite storage of spoils. 	100% no spoil materials will be left unattended and no mud/dirt will be transferred in the road		
nearby bodies of water due to surface water run-off	 Construction of soil erosion control measures (e.g. ripraps geotextiles, etc.) Provision of siltation pond to collect water run-off and Drainage systems, Housing Units, Control of the contr			
Institutional and Recreation Areas, and Water Supply System				

Potential siltation of nearby bodies of water due to surface water run-off	Provison of sediment trap/siltation pond	100% no siltation		
Dust generation due to construction	 Implement speed limit for heavy equipment/vehicles Maintain a misty access road surface within project site by sprinkling water at least (2x) twice a day during dry season 	100% no dust generated		
Noise pollution from heavy equipment facilities	• Use of mufflers and exhaust silencers	100% compliance to NPCC MC 02 Series of 1980		
Generation of hazardous waste (i.e used oil from motor pool, empty paint cans, etc.)	 Provision of hazardous waste storage facility/area; transported, treated, and disposed by hazardous wastes DENR accredited third party transporter and treater 	100% compliant to RA 6969		
Generation of construction debris	 Proper collection of construction debris and implementation of Solid Waste Management Program in compliance to RA 9003 Collection of construction debris third party hauler with valid permit/clearance from LGU 	100% construction debris collected/hauled		
A.3 Land modification by landscaping and hardscaping (including installation of ornaments and other utilities such as lightings, etc.				
Potential soil erosion and run-off (upon rainfall)	 Provision of temporary and permanent siltation ponds/catchment areas Provision of engineering and/or environmental measures to control possible erosion and surface runoff brought by the land modification activity. 	brought by the		
A.4 Beach development (including construction of mooring facilities and other coastal development structures)				
Potential siltation of coastal marine waters	Establishment of delineated buffer zones and installation of silt curtains	100% prevention of siltation that might be brought by the site development		
B. Operation/Implementation Phase B.1 Operation of commercial area, institutional area and occupied housing units				
Generation of wastewater	Provision of Sewage Treatment Facility or connection to sewerage treatment plant (if available) to treat the collected wastewater. Hygienic septic tank (for 212 occupants / staff or less – DILG MC 2019-62) with regular desludging by third party contractor (the contractor must have a valid discharge permit of its treatment facility) Wastewater treatment facility	100% Compliance to DENR effluent standards		

	(for more than 212 occupants / staff – DILG MC 2019-62)			
Generation of solid waste	Note: For 98L per person per day water consumption; 80% will become wastewater – hence for 300 persons; at least 23.52 cubic meter per day WTF capacity shall be installed and operated • Provision of waste bins and proper implementation of solid waste	100% compliant to RA 9003		
	segregation Provision of Material Recovery Facility (MRF) Collection of domestic solid waste by LGU or third-party collector with permit/clearance from LGU for proper disposal Composting of Organic Wastes	10 101 9000		
Generation of hazardous waste (i.e used oil from motor pool, empty paint cans, etc.)	 Provision of hazardous waste storage facility/area; transported, treated, and disposed by hazardous wastes DENR accredited third party transporter and treater 	100% compliant to RA 6969		
Degradation of air quality due to use of air pollution sources (if any)	 Provision of air pollution control equipments / facility Regular maintenance of pollution control equipment 	100% compliance to RA 8749		
B.2 Operation of beach area				
Generation of solid waste	• Provision of waste bins and proper implementation of solid waste segregation	100% compliant to RA 9003		
Potential disturbance of marine species and other coastal resources	 Install boat mooring buoys at sites for use of dive boats, and ban boat anchoring on coral substrate Designate limited area for recreational activities 	100% prevention of habitat fragmentation		
Generation of effluents due to wastewater generation	 Monitoring of the following significant effluent quality parameters (based on PSIC Code 681): ☑ BOD ☑ Fecal Coliform ☑ Ammonia ☑ Nitrate ☑ Phosphate ☑ Oil and Grease ☑ Surfactants 	100% compliance with DENR effluent standards (RA 9275); (i.e.DAO 2016-08 and DAO 2021-19)		