FOR RECLAMATION PROJECTS

ENVIRONMENTAL MANAGEMENT PLAN

POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE	MITIGATING MEASURES	RATING/ PERFORMANCE OF MITIGATING MEASURES		
A. Dredging of Unwanted Materials				
Increase in turbidity due to removal of unwanted materials	Installation of a silt curtain made of geotextile materials around the dredging vessel and dredging area	100% compliance to water quality guidelines on TSS and Color (samples to be taken outside the silt curtain and the identified sampling points within the vicinity)		
Spillage of unsuitable dredged materials	• Hauler shall ensure that all vessels are in good condition to prevent leaking/spilling of unsuitable dredged materials	100% no spillage of unsuitable dredged materials		
Contamination of marine water due to disposal of unsuitable dredged materials	Unsuitable dredged materials shall be disposed in the approved area designated by the Philippine Coast Guard	100% compliance to water quality guidelines on TSS and Color		
Noise pollution and air pollutants from dredging vessel	Use of mufflers and silencer	100% Noise within standard (NPCC MC 002 Series of 1980)		
		100% compliance with RA 8749		
B. Reclamation Activity the project area with r	y (Construction of containment wall stru eclamation activities)	icture and filling		
Increase in turbidity	• Installation of a silt curtain made of geotextile materials 50 m away from the working area and surrounding the the portion where the containment wall will be constructed	100% compliance to water quality guidelines on TSS and Color (samples to be taken outside the		
	 Silt curtains shall be regularly inspected before commencement of work to ensure that there is no damaged geotextile Vessels transporting filling materials should be properly maintained and in good condition to prevent 	silt curtain and the identified sampling points within the vicinity)		

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	 leakage/spillage Construction of containment structure (i.e. rock dike, accropode wick drains, sandbag, and grid plate) to avoid dispersal of the filling materials 	
Generation of Domestic Wastewater	 On-board domestic liquid waste shall be managed in accordance with the provision of R.A 9275; *treatment *temporary containment 	100% compliance with RA 9275
Potential oil spills/leaks from the dredging vessels	 *temporary containment Vessels should be provided with oil spill equipment and should be properly maintained and in good condition to prevent leakage/spillage Implementation of the PCG-approved oil spill contingency plan as the need arises 	100% no spillage
Generation of noise and air pollutants from vessels	Use of mufflers, silencer, and exhaust pipes	100% noise within standard - (NPCC MC 002 Series of 1980) 100% compliance with RA 8749
Generation of solid wastes on-board	 Provision of waste bins and segregation of wastes with proper labelling, and wastes materials manifest indicating the volume of waste and date of collection/storage/disposal Collected wastes shall be brought at port reception facilities/accredited garbage collectors and shall have Garbage Record Book duly registered by Marine Environmental Protection Command (MEPCOM) 	100% compliant to RA 9003
Generation of hazardous materials	 Marine vessels shall have an onboard oil-water separator system and temporary hazardous waste storage equipment. Hazardous wastes shall be collected by PCG-accredited oil waste collectors and disposed through DENR accredited third party haulers and treater Provision of PPE for proper handling of hazardous wastes 	100% compliant to RA 6969

C. Stabilization and Maintenance of Reclaimed Land			
Potential soil erosion and run-off due to heavy rainfall	Silt curtain shall be installed along the perimeter of the area to contain potential dispersion of silt materials and turbidity	100% compliance to water quality guidelines on TSS and Color (samples to be taken outside the silt curtain and the identified sampling points within the vicinity)	
Dust dispersion during compaction using heavy equipment	Implement dust suppression methods during the reclamation and maintenance, such as water spraying and vehicle speed regulation	100% compliance to PM10 based on AAQ	
Generation of noise	Use of mufflers or silencer	100% noise within standard - (NPCC MC 002 Series of 1980)	
Generation of effluents due to wastewater generation	 Monitoring of the following significant effluent quality parameters: ☑ Total Suspended Solids 	100% compliance with DENR effluent standards (RA 9275); (i.e.DAO 2016-08 and DAO 2021-19)	