FOR NON-FOOD MANUFACTURING PROJECTS

ENVIRONMENTAL MANAGEMENT PLAN

POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE		RATING/ PERFORMANCE OF MITIGATING MEASURES
A. Construction Phase		
A.1 Site Development		1000/
Generation of spoils such as excess fill materials from grading and excavation activities		no spoil materials will be left unattended
Degradation of surface water quality due to contamination from domestic wastewater		water, soil, and
	 Provision of temporary 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 	
Potential siltation of nearby water bodies due to soil erosion	 Provision of drainage systems to minimize and control infiltration of sediments to the nearby water bodies Provision of engineering intervention such as silt traps, etc. and/or environmental measures to control the rate of erosion and siltation 	that might be
Generation of dust from site preparation	• Maintain a misty access road surface within project site by sprinkling of water at least (2x) twice a day during dry season	
A.2 Construction of Manufa	acturing Facilities	

Generation of noise due to construction activities	 Equip mufflers and silencers to heavy equipment facilities for construction Construction activities shall be done during daytime only 	100% compliance to NPCC MC 02 Series of 1980		
Emission from delivery trucks	• Use of properly maintained delivery trucks	100% compliance with RA 8749		
B. Operational Phase				
B.1 Delivery and transfer of raw materials and finished goods				
Generation of noise from delivery trucks	• Use of mufflers and exhaust silencers	100% compliance to NPCC MC 02 Series of 1980		
B.2 Operation and maintenance of facilities				
Pollution of surface water from untreated process wastewater	Provision of adequate Wastewater Treatment Facility with the following treatment:	of wastewater to nearby bodies of water, soil, and		
	□ Primary (e.g. sedimentation pond, aeration basin, skimmer etc.)□ Secondary (e.g. coagulation and	subsoil 100% compliance		
	flocculation tanks) Tertiary (e.g. activated sludge	to RA 9275		
	treatment, ozonation, chlorination, etc.)			
Generation of domestic wastewater	Provision of sewage treatment plant with capacity based on the total personnel/workers in the plant			
	☐ Hygienic septic tank (for 212 occupants 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 (for more than 212 occupants – DILG MC 2019-62)			
	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			
Generation of gas emissions from point sources, such as boilers, generator sets	Use any of the following: □ baghouse filter □ electrostatic precipitator (ESP) □ fabric filter with teflon membrane □ multicyclone □ gas and particulate absorption tank	100% compliance to RA 8749		
	equipped with filter medium wet scrubber or limestone slurry injection in the flue gas to control SOx emission			

	□ air and temperature control, flue gas recirculation or provision of catalytic converter to control NOx emission	
	☐ use any adequate air pollution control facilities	
	Provision of any of the following:	
	☐ For emissions above 7500 tons per day, provide CEMS to transmit data to RO (DAO 2000-81)	
Generation of hazardous materials (eg. used oil from motorpool, mfg plant, oil/grease from skimmer/grease/trap, busted fluorescent bulb, used batteries etc.)	 Provision of storage facility/area and transport & treatment by hazardous wastes DENR accredited third party transporter and treater Provide oil containment system (i.e. ring canal, grease traps) for fuel tanks/ motorpool/ maintenance areas 	
Generation solid wastes (e.g. expired raw materials/ product rejects/ products returned by customers, and domestic solid wastes)	 Provision of Materials Recovery Facility (MRF) Segregation of wastes with proper labelling. Collection of solid wastes/domestic wastes by third party contractor with permit/clearance from LGU for proper disposal of wastes 	100% compliance to RA 9003
Generation of effluents	Monitoring of the following	100% compliance
due to wastewater generation	significant effluent quality parameters:	with DENR effluent standards (RA
Berreramon	parameters.	9275); (i.e.DAO
	☑ Temperature	2016-08 and DAO
	☑ pH	2021-19)
	☑ BOD ☑ Total Suspended Solids	
	☑ Total Suspended Solids	