I. ENVIRONMENTAL IMPACT MANAGEMENT AND MONITORING PLAN FOR CURRENT OPERATIONS & PROPOSED EXPANSION/MODIFICATION

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	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: Actual land uses w/in 1km radius: 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 ☐ Others, specify: 	Actual land uses w/in 1km radius: Residential Commercial/ Institutional Industrial Agricultural/ Recreational Protected Areas Others, specify:	
☐ Disturbance to wildlife due to vegetation clearing during expansion	Existing vegetation in the expansion area: Forestland Marshland Grassland Mangrove Wetland	 ✓ Comply with conditions of DENR/LGU CLUP, Tree Cutting Permit, ROW, Permit ✓ Limit land clearing as much as possible ✓ Provide temporary fencing for vegetation that will be retained 	Annual inspection of area replanted/ revegetated Others, specify:	

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	Others, specify:	 ✓ Promote restoration of damaged or destroyed vegetation where possible (e.g., tree planting); ✓ Others, specify: 		
Land tenure/ compatibility issue (in expansion area)	Identify land tenure/ compatibility issues:	Obtain the following clearances/ permits from concerned agencies:	Regularly monitor presence/absence of complaints	
	 □ CADC/ CADT/ CALC/ CALT □ ROW □ Informal settlers □ Ecologically sensitive or protected area □ Others, specify: 	 □ Resettlement Plan prepared □ Provide relocation/disturbance compensation packages □ Ensure participation of IPs in consultations and dialogues □ MOA prepared/signed □ Provide adequate buffer □ Others, specify: 	Regular coordination with LGU or appropriate agencies Others, specify:	
 □ Change in surface landform/ topography/ terrain/slope (in expansion area) □ Soil Erosion(in expansion area) 	Slope in expansion area: Flat (0-3%) Gently sloping to rolling (3-18%) Steep (>18%) Is the project site's expansion area located in an area identified by MGB/PAG-ASA/ PHIVOLCS as hazard prone? Yes No	Considering the natural hazards and climate projections in the area: Employ appropriate erosion control and slope protection measures Designate a spoils storage area, with topsoil set aside for later use and allow maximum re-use of spoils Construction during dry season Stabilization of embankment with grasses or other soil cover	 □ Regular inspection of slope protection measures in erosion-prone areas □ Regular inspection for new eroded areas near the site □ Others, specify: 	

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		 □ Conduct Engineering Geological and Geo-hazard Assessment (EGGA) and implement corresponding recommendation □ Others, specify: 		
Building of Structure and Improper solid waste management leading to: Impairment of visual aesthetics Devaluation of land values	Solid Waste Management Scheme in the area: SLF MRF Composting Regular Collection of Solid Wastes Presence of visually significant landforms/landscape/structures? Yes No	 □ Set-up temporary fence around the construction area ☑ Implement re-use and recycling of waste materials ☑ Implement proper segregation, collection and disposal of domestic wastes in designated areas ☑ Provide receptacles / bins for solid wastes □ Composting of Organic Wastes □ Coordinate with the municipal / city waste collectors □ Implement landscaping and other beautification measures □ Provide adequate buffer □ Compensate adjacent property owners □ Engage third party company for waste collection □ Others, specify: 	 ✓ Daily inspection of waste handling including segregation in waste/recycling bins ✓ Weekly inspection of waste accumulation and disposal ☐ Regular inspection of landscaping and other beautification activities ☐ Regular monitoring of buffer zones ✓ Regularly monitor presence/absence of complaints from adjacent property owners ☐ Others, specify: 	

	Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
	Soil/Land contamination due to materials leakage Depletion of soil nutrient content/soil productivity/Change in acidity/alkalinity of soil	Existing soil/land type in the expansion area: sandy clay sandy-loam concrete/cement Others, specify Soil acidity/alkalinity acidic basic Conduct of soil test/analysis for the following parameters relevant to the potential source of contamination, specify:	Secondary containment (pls specify): Others, specify:	 □ Regular inspection for leakage of materials that can cause land/soil contamination. □ Monitoring of soil physical and chemical properties 	
W	ATER				
	Increased siltation due to project activities Water quality degradation Others, specify:	Specify nearest/receiving water body: Distance to nearest/receiving water body: □ 0 to less than 0.5 km □ 0.5 to 1 km □ More than 1 km Size of population using receiving surface water: □ ≤ 1,000 persons □ >1,000 and ≤ 5,000persons □ >5,000person	Set-up proper and adequate sanitary facilities Ensure strict observance of proper waste disposal/handling and proper sanitation including by the contractor and its workers (if any) Provision of wastewater treatment facility (e.g. septic tank, oil and water separator, etc.) Set up silt trap/stilling ponds to minimize downstream siltation Provision of three-chambered septic tank for domestic sewage	Regular (ocular) inspection of: Drainage / canal systems Wastewater treatment facility (i.e., grease trap, septic tank, etc.) Regular monitoring of ambient water for the following: Parameter Frequency PH Annual Quarterly TSS Annual	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
	Classification of nearest water body: Freshwater	□ Provide ring canals around fuelling tanks/ motorpool/ maintenance areas □ Others, specify □ □ Provide ring canals around fuelling tanks/ motorpool/ maintenance areas □ Others, specify	□ Semi-annual □ Quarterly □ BOD □ Annual □ Semi-annual □ Quarterly □ Color □ Annual □ Quarterly □ Annual □ Semi-annual □ Quarterly □ Annual □ Semi-annual □ Quarterly □ Annual □ Semi-annual □ Quarterly □ Quarterly □ Annual □ Semi-annual □ Quarterly	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
☐ Competition in water use ☐ Depletion of water resources	Size of population using the source/s of water for the project: □ ≤ 1,000 persons □ >1,000 and ≤ 5,000 persons >5,000 persons Available/nearest water source. □ Deepwell □ Water district/LGU □ Surface water □ Others, specify:	 Implement rainwater harvesting and similar measures as an alternative source of water ✓ Observe water conservation measures; □ Careful selection of project site to avoid disruption of traditional water uses ✓ Obtain Water Permit from NWRB ✓ Improve efficiency of water supply and distribution system □ Increase storage capacities of water supply structures for resilience to greater climate variations and extremes □ Others, specify: 	 ✓ Regularly monitor presence/absence of complaints ✓ Regular coordination with concerned agencies ✓ Regularly monitor occurrences of water shortages ✓ Others, specify: 	
☐ Increased occurrence of flooding	Is the project site located in an area identified by MGB/PAG-ASA as flood prone? Yes No	 □ Use appropriate design for project facilities including appropriate drainage mechanism considering the existing local drainage system. □ 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: 	 ✓ Regularly monitor presence/absence of complaints ✓ Regular coordination with concerned agencies ✓ Regularly monitor increased frequency of flooding ✓ Others, specify: 	

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AIR / NOISE				
 □ Impact on air quality □ Nuisance due to generation of obnoxious/ unpleasant odor 	Distance to nearest community:	 □ Properly operate and maintain all emission sources (e.g. vehicles, pumps, generator, etc) □ Install appropriate air pollution device : □ Control vehicle speed to lessen suspension of road dust □ Conduct water spraying to suppress dust sources and minimize discomfort to nearby residents □ Use covered vehicles to deliver materials that may generate dust □ Others, specify: 	Regularly monitor presence/absence of complaints Regular monitoring for obnoxious odor Regular (ocular) inspection of: Absence of white or black smoke from vehicles, heavy equipment and generator Monitoring of ambient air for the following: Parameter Frequency PM10 Annual Semi-annual Quarterly TSP Annual Semi-annual Quarterly NO2 Annual Semi-annual Quarterly Semi-annual Quarterly Semi-annual Quarterly Others: Annual Quarterly Others: Annual Quarterly	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
☐ Nuisance due to noise generation		 □ Properly operate and maintain all noise sources (e.g. vehicles, pumps, generator, etc) □ Install appropriate noise control device/s (e.g., mufflers, silencer, sound barriers, etc.) □ Implement appropriate operating hours □ Provide adequate buffer and/or planting of trees □ Others, specify: 	 □ Regularly monitor presence/absence of complaints □ Regular monitoring for noise □ Regular monitoring of buffer zones □ Others, specify: 	
PEOPLE				
 Displacement of residents including indigenous people in the project site and within its vicinity Enhanced employment and/or livelihood opportunities Reduced employment and/or livelihood opportunities Increased revenues for LGU 	Size of population of host barangay: □ ≤ 1,000 persons □ >1,000 and ≤ 5,000persons □ >5,000person □ Indigenous people Size : □ Classification of host barangay: □ Urban □ Rural	 □ Provide relocation/disturbance compensation packages ☑ Prioritize local residents for employment ☑ Promptly pay local taxes and other financial obligations ☑ Regular coordination with LGU □ Conduct prior consultation & coordination to minimize disruption on daily domestic activities □ Ensure participation of IPs in consultations and dialogues & 	 ✓ Regularly monitor presence/absence of complaints ✓ Regular coordination with LGU Others, specify: 	
 Disruption/Competition in delivery of public services (e.g., education, peace and order, etc.) 	Employment/Livelihood Opportunity within the host municipality ☐ High ☐ Low	consider IP rights and cultural practices in the provision of relocation/disturbance compensation packages		

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
 □ Enhanced delivery of public services (e.g., education, peace and order, etc.) □ Increase in traffic volume and worsening of traffic flow 	Available services within/near the host barangay: Schools (e.g. elementary, high school, college) Health facilities (e.g., clinics, hospitals, etc.) Peace and order (e.g., police outpost, brgy. Tanod, etc.) Recreation and sports facilities Others, specify:	 □ Provide appropriate traffic/warning signs, lighting, etc □ Others, specify: 		