

FOR MINOR DAM 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/Site Clearing		
Generation of spoils	<ul style="list-style-type: none"> Spoil materials shall be hauled by third party hauler 	100% no spoil materials will be left unattended
Dust emission from site preparation activities	<ul style="list-style-type: none"> Sprinkling of water at least once a day along the access road and project area Impose speed limits in the construction area 	100% no dust generation
Potential siltation of nearby bodies of water due to surface water run-off	<ul style="list-style-type: none"> Provision of engineering and/or environmental measures to control the rate of erosion and siltation 	100% prevention of siltation that might be brought by the site development
A.2 Blasting activity for the removal of obstruction in the project site and in the development of the dam foundation (if applicable)		
Ground shaking and potential accidents due to flyrocks	<ul style="list-style-type: none"> Blasting activities should be done during daytime only. Controlled blasting operation shall be implemented to minimize ground vibration, air blast and potentially dangerous flyrocks. Sirens shall be sounded before and after blasting to announce start and end of blasting 	100% noise within standard
Generation of spoils/blasted materials	<ul style="list-style-type: none"> Materials generated shall be collected by DENR accredited third party hauler 	100% no spoil materials will be left unattended
A.3 Construction of Dam (Excavation for dam foundation, Filling of concrete, etc.) and construction of support facilities such as Office buildings, access roads, motorpool, etc.		
Generation of solid wastes	<ul style="list-style-type: none"> Provision and maintenance of Materials Recovery Facility Implement recovery re-use and recycling of waste materials Provide receptacles / bins for solid wastes Composting of Organic Wastes 	100% compliance with RA 9003

Degradation of surface water quality due to contamination from domestic wastewater	<ul style="list-style-type: none"> Provision of portalets for construction workers <p><i>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)</i></p> <p><i>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)</i></p> <ul style="list-style-type: none"> 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 	100% no discharge of domestic wastewater to nearby bodies of water
Increased siltation due to project activities	<ul style="list-style-type: none"> Set up silt trap/settling ponds to minimize downstream siltation Provision of barriers (such as aggregates, rocks) to minimize siltation during the cofferdam construction Provision of appropriate soil erosion control and slope protection measures (e.g. contour farming, hedgerow planting, etc.) considering the natural hazards and climate projections in the area Stabilization of embankment with grasses or other soil cover 	100% compliance with RA 9275
Water contamination due to oil and grease leak from heavy equipment operation	<ul style="list-style-type: none"> Regular inspection and proper maintenance of heavy equipment Fuel and oil storage areas to be located (twenty) 20 meters away from any watercourses 	100% compliance with RA 9275
Generation of hazardous wastes such as used oil, used batteries, contaminated rags, etc.	<ul style="list-style-type: none"> Provision of a Hazardous Waste Storage Area with proper labeling, segregation, and storage of wastes Transport, treatment, and disposal of hazardous wastes by DENR-accredited third-party contractors 	100% compliance with RA 6969

Noise pollution due to operation of heavy equipment	<ul style="list-style-type: none"> • Use of mufflers and exhaust silencers • All workers must be equipped with PPEs 	100% compliance to NPCC MC 02 Series of 1980
B. Operation Phase		
Operation and Maintenance of the Dam and Support Facilities		
Generation of solid wastes	<ul style="list-style-type: none"> • Provision and maintenance of Materials Recovery Facility • Implement recovery re-use and recycling of waste materials • Provide receptacles / bins for solid wastes • Composting of Organic Wastes 	100% compliance with RA 9003
Degradation of surface water quality due to contamination from domestic wastewater	<ul style="list-style-type: none"> • Operation and maintenance of septic tank or wastewater collection system 	100% no discharge of domestic wastewater to nearby bodies of water
Noise pollution due to operation of heavy equipment during silt removal	<ul style="list-style-type: none"> • Use of mufflers and exhaust silencers • All workers must be equipped with PPEs 	100% Noise within standard
Generation of effluents due to wastewater generation	<ul style="list-style-type: none"> • Monitoring of the following significant effluent quality parameters: <ul style="list-style-type: none"> ☑ Total Suspended Solids 	100% compliance with DENR effluent standards (RA 9275); (i.e.DAO 2016-08 and DAO 2021-19)