

FOR QUARRY 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, Removal of overburden, Road Network Development (ISAG), Construction of processing and other Related Facilities (with crushing/vibro/sand washing plant))		
Degradation of surface water quality due to contamination from domestic wastewater (<i>with crushing /vibro/sand washing plant</i>)	<ul style="list-style-type: none"> Provide portalets for the 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"> Hauling of sewage from portalets by third party service provider shall be covered by a licensed/permit from LGU and with valid Discharge Permit for the wastewater treatment facility 	100% complaint with RA 9275
Potential siltation of nearby drainage system/ water bodies due to soil erosion (<i>with crushing plant</i>)	<ul style="list-style-type: none"> Provision of silt traps/ponds for the surface run-off Provision of engineering and/or environmental measures to control the rate of erosion and siltation 	100% compliance to DAO 2016-08 and RA 9275
Generation of dust from site preparation/removal of overburden	<ul style="list-style-type: none"> Sprinkling of water along the access road and project area at least twice a day especially during dry season Vehicles transporting aggregates/ construction materials should be adequately covered with tarpaulin canvass or jute sacks at all times 	100% compliance to RA 8749

Generation of noise due to construction and installation of equipment (<i>for crushing/vibro/sand washing plant</i>)	<ul style="list-style-type: none"> • Use of mufflers, silencer, and exhaust pipes for construction equipment 	100% compliance to NPCC MC 02 Series of 1980
Generation of spoils such as excess fill materials from grading and excavation activities and solidwaste	<ul style="list-style-type: none"> • Excess spoils to be hauled for proper disposal • Trucks tires should be thoroughly washed before leaving the project site (if applicable) • Spoils shall be stockpiled on flat areas and away from drainage routes and nearby water body • Provision of MRF and proper segregation of solidwaste, recyclables will be sold to junkshop and residuals will be disposed off to a sanitary landfill. 	100% compliant with RA 9003
Generation of used oil, BFL and other hazardous materials (<i>for crushing, vibro, sand washing plant</i>)	<ul style="list-style-type: none"> • Provision of storage for hazardous wastes with proper labelling • Collection and treatment of hazardous wastes by DENR accredited 3rd party hauler and treater 	100% compliance to RA 6969
B. Operational Phase		
B.1 Extraction and delivery of raw materials and finished products with with crushing/vibro/sand washing project		
Degradation of surface water quality due to contamination from domestic wastewater	<ul style="list-style-type: none"> • Provision of multi-chambered septic tank • Siphoning/desludging septic tank by third party shall be conducted every 3 years from the start of operation covered by a licensed/permit from LGU and with valid Discharge Permit for the wastewater treatment facility 	100% complaint with RA 9275
Potential siltation (turbidity) during Extraction and operation of crushing/ bivro/ sand washing plant	<ul style="list-style-type: none"> • Provision of temporary sand barrier from the active site/area of extraction (if applicable); • Provision of silt curtain (if applicable) • Implementation of the appropriate method of extraction as identified by MGB 	100% complaint with RA 9275

	<ul style="list-style-type: none"> • Provision of siltation ponds 	
Potential accidents from landslides/falling debris	<ul style="list-style-type: none"> • Provision of measures such as _____ to prevent/arrest falling debris and landslide to protect the public 	100% no accidents from landslides/falling debris
Generation of dust and noise from heavy equipment and crusher/vibrating screens etc.	<ul style="list-style-type: none"> • Provision of water sprinklers at the vibrating screen • Water sprinkling of dirt roads, and provision of enclosures or muffling devices on engines and equipments • Daytime operation only, or secure permit/clearance from concerned barangay if operating at nighttime 	100% compliant to RA 8749
<p>Generation of noise from delivery trucks / generator set</p> <p>Generation of noise from blasting operation (if applicable)</p>	<ul style="list-style-type: none"> • Use of mufflers, silencer, and exhaust pipes as applicable • Use of controlled blasting method 	100% Noise within standard (NPCC MC 002 Series of 1980)
Generation of solid wastes	<ul style="list-style-type: none"> • Provision of Materials Recovery Facility (MRF) • Hauling of domestic wastes by third party contractor with permit/clearance from LGU for proper disposal of wastes . • Composting of biodegradables on-site (if any) 	100% compliant to RA 9003
Generation of used oil (from motorpool) and other hazardous materials (ie. used batteries, fluorescent lamps) (with Crushing)	<ul style="list-style-type: none"> • Provision of storage facility/area and collection of hazardous wastes by DENR accredited 3rd party hauler and treater 	100% compliant to RA 6969
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"> ☑ BOD ☑ Total Suspended Solids 	100% compliance with DENR effluent standards (RA 9275); (i.e.DAO 2016-08 and DAO 2021-19)

