

**BATCHING AND CRUSHING PLANT**  
**ENVIRONMENTAL MANAGEMENT PLAN**

POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE	MITIGATING MEASURES	RATING/ PERFORMANCE OF MITIGATING MEASURES
<b>A. Construction Phase</b>		
A.1 Site Development including minor excavation		
Degradation of surface water quality due to contamination from domestic wastewater	<ul style="list-style-type: none"> <li>Provide (indicate number) of portalets for construction workers  <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>  <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></li> <li>Provision of temporary septic tank or wastewater collection system for workers</li> <li>Hauling of wastewater from portalets/septic tank by third party shall be covered by a licensed/permit from LGU and with valid Discharge Permit for the wastewater treatment facility</li> </ul>	100% no discharge of domestic wastewater to nearby bodies of water
Dust generation from site preparation	Maintain a misty access road surface/project site by sprinkling of water at least twice (2x) a day during the dry season	100% no dust generation
Generation of spoils	<ul style="list-style-type: none"> <li>Spoil materials shall be hauled by third party hauler with approved permit/clearance from LGU</li> <li>Trucks should be thoroughly washed before leaving from the project site to avoid the transfer of mud/dirt in the road</li> </ul>	100% no spoil materials will be left unattended and no mud/dirt will be transferred in the road
Potential siltation of nearby bodies of water due to surface water run-off	<ul style="list-style-type: none"> <li>Construction of soil erosion control measures (e.g. ripraps geotextiles, etc.)</li> <li>Provision of siltation pond to collect water run-off</li> </ul>	100% no siltation
Generation of air pollutants from heavy equipment and machineries	<ul style="list-style-type: none"> <li>Preventive maintenance of heavy equipment and provision of sound proofing.</li> </ul>	100% compliant to RA 8749
<b>B.Operation/Implementation Phase</b>		
B.1 Delivery and transfer of aggregates/concrete) to Project Site		

Potential spillage of raw materials from trucks	<ul style="list-style-type: none"> <li>Trucks are fully covered with canvass or tarpaulin</li> </ul>	100% no spillage of raw materials
Generation of dust	<ul style="list-style-type: none"> <li>Trucks are fully covered with canvass or tarpaulin</li> </ul>	
B.2 Operation of the crushing and batching (aggregates/concrete) plant (ie. crushers, screens)		
Degradation of air quality due to generation of particulates	<ul style="list-style-type: none"> <li>Use of the following: <ul style="list-style-type: none"> <li><input type="checkbox"/> Cyclone dust collector</li> <li><input type="checkbox"/> Bag filters (e.g. nomex, aramid fibers etc. )</li> </ul> </li> <li>Provision of closed loop silo or silo connected to dust collector with fabric filters to avoid escape of cement particles</li> <li>Proper perimeter fencing sufficient enough to prevent dust dispersion or dust liberation to nearby communities</li> </ul>	100% compliant to RA 8749
Generation of noise from equipments (crushers, screens etc.)	<ul style="list-style-type: none"> <li>Provision of enclosures or muffling devices on engines and equipments</li> <li>Use of sound absorbing liners (e.g. rubber)</li> <li>Daytime operation only, or secure permit/clearance from concerned LGU if operating at nighttime</li> </ul>	100% within noise standards
Generation of used oil (from motorpool) and other hazardous wastes (i.e. used batteries, fluorescent lamps)	<ul style="list-style-type: none"> <li>Provision of storage facility/area and collection of hazardous wastes by DENR accredited 3<sup>rd</sup> party hauler and treater</li> </ul>	100% compliant to RA 6969
Generation of process wastewater that potentially cause pollution of nearby bodies of water	<ul style="list-style-type: none"> <li>Provision of wastewater collection and treatment system (ie. series of settling pond) to capture all contaminated process wastewater</li> </ul>	100% compliant to RA 9275
Generation of domestic wastewater	<ul style="list-style-type: none"> <li>Provision of septic tank, to be siphoned regularly by third party hauler with existing treatment facility covered by valid Discharge Permit</li> <li>Provision of siltation pond for collection of run-off water</li> </ul>	
Generation of solid wastes	<ul style="list-style-type: none"> <li>Provision of Materials Recovery Facility (MRF)</li> <li>Proper segregation of wastes with proper labelling, and wastes materials manifest indicating the volume of waste and date of collection</li> <li>Hauling of domestic solidwaste by LGU or third party hauler with permit/clearance from LGU for proper disposal</li> </ul>	100% compliant to RA 9003

Generation of effluents due to wastewater generation	<ul style="list-style-type: none"><li>Monitoring of the following significant effluent quality parameters:<ul style="list-style-type: none"><li><input checked="" type="checkbox"/> BOD</li><li><input checked="" type="checkbox"/> Total Suspended Solids</li></ul></li></ul>	100% compliance with DENR effluent standards (RA 9275); (i.e.DAO 2016-08 and DAO 2021-19)
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