

PETROLEUM FUEL STATION PROJECTS

II. ENVIRONMENTAL IMPACTS MANAGEMENT AND MONITORING PLAN

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
LAND				
<input checked="" type="checkbox"/> Consistency with land use	<p>Current land use w/in 1km radius (as per zoning ordinance):</p> <p><input type="checkbox"/> Residential</p> <p><input type="checkbox"/> Commercial/ Institutional</p> <p><input type="checkbox"/> Industrial</p> <p><input type="checkbox"/> Agricultural/ Recreational</p> <p><input type="checkbox"/> Protected Areas</p> <p><input type="checkbox"/> Others, specify</p> <p>Actual land uses w/in 1km radius:</p> <p><input type="checkbox"/> Residential</p> <p><input type="checkbox"/> Commercial/ Institutional</p> <p><input type="checkbox"/> Industrial</p> <p><input type="checkbox"/> Agricultural/ Recreational</p> <p><input type="checkbox"/> Protected Areas</p> <p><input type="checkbox"/> Others, specify</p>	<input checked="" type="checkbox"/> See attached proof of compatibility with land use <input checked="" type="checkbox"/> Limit project activities to what is compatible to the land use <input type="checkbox"/> Others, specify		

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
<input type="checkbox"/> Land Tenure / compatibility issue	Land tenure / compatibility issues: <input type="checkbox"/> CARP <input type="checkbox"/> CADC/ CADT/ CALC/ CALT <input type="checkbox"/> ROW <input type="checkbox"/> Informal settlers <input type="checkbox"/> Ecologically sensitive or protected area <input type="checkbox"/> Others, specify	<input type="checkbox"/> Obtain appropriate clearances/ permits from concerned agencies: <input type="checkbox"/> Resettlement Plan prepared <input type="checkbox"/> Provide relocation/disturbance compensation packages <input type="checkbox"/> Ensure participation of IPs in consultations and dialogues <input type="checkbox"/> MOA prepared/signed <input type="checkbox"/> Provide adequate buffer <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Regularly monitor presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with LGU or appropriate agencies <input type="checkbox"/> Others, specify	
<input type="checkbox"/> Disturbance to wildlife due to vegetation clearing	Existing vegetation in the area: <input type="checkbox"/> Forestland <input type="checkbox"/> Marshland <input type="checkbox"/> Grassland <input type="checkbox"/> Mangrove <input type="checkbox"/> Wetland	<input type="checkbox"/> Comply with conditions of DENR/LGU SLUP, Tree Cutting Permit, ROW, PCA Permit <input type="checkbox"/> Limit land clearing as much as possible <input type="checkbox"/> Provide temporary fencing for vegetation that will be retained <input type="checkbox"/> Promote restoration of damaged or	<input checked="" type="checkbox"/> Annual inspection of area replanted/ re-vegetated <input type="checkbox"/> Others, specify	

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Initial Environmental Examination (IEE) Checklist Report for Petroleum Fuel Station Projects

Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
	<input type="checkbox"/> Others, specify	destroyed vegetation where possible (e.g., tree planting); <input type="checkbox"/> Provide adequate buffer zone <input type="checkbox"/> Others, specify		
<input type="checkbox"/> Change in surface landform/ topography/ terrain/slope <input type="checkbox"/> Soil Erosion	Slope: <input type="checkbox"/> Flat (0-3%) <input type="checkbox"/> Gently sloping to rolling (3-18%) <input type="checkbox"/> Steep (>18%) Is the project site located in an area identified by MGB/ PAG-ASA/ PHIVOLCS as hazard prone? <input type="checkbox"/> Yes <input type="checkbox"/> No	Considering the natural hazards and climate projections in the area: <input type="checkbox"/> Provide erosion control and slope protection measures <input type="checkbox"/> Designate a spoils storage area, with topsoil set aside for later use and allow maximum re-use of spoils <input type="checkbox"/> Construction during dry season <input type="checkbox"/> Stabilization of embankment with grasses or other soil cover <input type="checkbox"/> Conduct Engineering Geological and Geo-hazard Assessment (EGGA) and implement corresponding recommendation <input type="checkbox"/> Others, specify	<input type="checkbox"/> Regular inspection of slope protection measures in erosion-prone areas <input type="checkbox"/> Regular inspection for new eroded areas near the site <input type="checkbox"/> Others, specify	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
<input type="checkbox"/> Soil/Land contamination due to project operations and improper solid/hazardous waste disposal <input type="checkbox"/> Depletion of soil productivity/Change in acidity/alkalinity of soil	Existing soil type in the area: <input type="checkbox"/> sandy <input type="checkbox"/> clay <input type="checkbox"/> sandy-loam <input type="checkbox"/> Others, specify Soil acidity/alkalinity <input type="checkbox"/> acidic <input type="checkbox"/> basic <input type="checkbox"/> Conduct of soil test/analysis for petroleum fuel content and other parameters relevant to the potential source of contamination (if any, specify):	<input type="checkbox"/> Secondary containment (pls specify : <input type="checkbox"/> Implement proper collection, labeling and storage of hazardous waste <input type="checkbox"/> Others, specify	<input type="checkbox"/> Monitoring of soil petroleum fuel content in soil and other parameters relevant to the potential source of contamination (if any, specify): <input type="checkbox"/> Others, specify	
Building of Structure and Improper solid waste management leading to: <input type="checkbox"/> Impairment of visual aesthetics	Solid Waste Management Scheme in the area: <input type="checkbox"/> SLF <input type="checkbox"/> MRF <input type="checkbox"/> Composting <input type="checkbox"/> Regular Collection of Solid	<input type="checkbox"/> Set-up temporary fence around the construction area <input checked="" type="checkbox"/> Implement re-use and recycling of waste materials <input checked="" type="checkbox"/> Implement proper segregation, collection and disposal of domestic wastes in designated area	<input checked="" type="checkbox"/> Daily inspection of waste handling including segregation in waste/recycling bins. <input checked="" type="checkbox"/> Weekly inspection of waste accumulation and disposal	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost						
<input type="checkbox"/> Devaluation of land values	Wastes Presence of visually significant landforms/landscape/structures? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Provide receptacles / bins for solid wastes <input type="checkbox"/> Composting of Organic Wastes <input type="checkbox"/> Coordinate with the municipal / city waste collectors <input type="checkbox"/> Engage third party company for waste collection <input type="checkbox"/> Implement landscaping and other beautification measures <input type="checkbox"/> Provide adequate buffer <input type="checkbox"/> Compensate adjacent property owners <input type="checkbox"/> Others, specify	<input type="checkbox"/> Regular inspection of landscaping and other beautification activities <input type="checkbox"/> Regular monitoring of buffer zones <input checked="" type="checkbox"/> Regularly monitor presence/absence of complaints from adjacent property owners <input type="checkbox"/> Others, specify					
WATER								
<input type="checkbox"/> Increased siltation due to project activities <input type="checkbox"/> Water quality degradation <input type="checkbox"/> Others, specify	Specify nearest water body: Distance to nearest water body: <input type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km Size of population using	<input checked="" type="checkbox"/> Set up proper and adequate sanitary facilities <input checked="" type="checkbox"/> Ensure strict observance of proper waste disposal/handling and proper sanitation including by the contractor and its workers (if any) <input checked="" type="checkbox"/> Provision of wastewater treatment facility (e.g., septic tank, oil and water separator, etc.) <input type="checkbox"/> Set up silt trap/settling ponds to minimize downstream siltation <input type="checkbox"/> Provide ring canals around fuelling tanks/ motor pool/ maintenance areas	Regular (ocular) inspection of: <input type="checkbox"/> Drainage/canal systems <input type="checkbox"/> Wastewater treatment facility (i.e., grease trap, septic tank, etc.) Regular monitoring of ambient water for the following: <table border="1"> <thead> <tr> <th>Parameter</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td><input type="checkbox"/> pH</td><td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td></tr> </tbody> </table>	Parameter	Frequency	<input type="checkbox"/> pH	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
Parameter	Frequency							
<input type="checkbox"/> pH	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly							

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost <input type="checkbox"/> Others, specify																										
	receiving surface water: <input type="checkbox"/> ≤ 1,000 persons <input type="checkbox"/> >1,000 and ≤ 5,000persons <input type="checkbox"/> >5,000person Classification of nearest water body : <table border="1" data-bbox="427 539 810 852"> <tr> <td><input type="checkbox"/> Freshwater</td> <td><input type="checkbox"/> Marine/ coastal water</td> </tr> <tr> <td><input type="checkbox"/> AA</td> <td><input type="checkbox"/> SA</td> </tr> <tr> <td><input type="checkbox"/> A</td> <td><input type="checkbox"/> SB</td> </tr> <tr> <td><input type="checkbox"/> B</td> <td><input type="checkbox"/> SC</td> </tr> <tr> <td><input type="checkbox"/> C</td> <td><input type="checkbox"/> SD</td> </tr> <tr> <td><input type="checkbox"/> D</td> <td></td> </tr> </table> Current Water Use: <input type="checkbox"/> Fishery <input type="checkbox"/> Tourist Zone / Park <input type="checkbox"/> Recreational <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural Distance of project area to the nearest well used: <input type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km Use of nearest well:	<input type="checkbox"/> Freshwater	<input type="checkbox"/> Marine/ coastal water	<input type="checkbox"/> AA	<input type="checkbox"/> SA	<input type="checkbox"/> A	<input type="checkbox"/> SB	<input type="checkbox"/> B	<input type="checkbox"/> SC	<input type="checkbox"/> C	<input type="checkbox"/> SD	<input type="checkbox"/> D		<input type="checkbox"/> Others, specify	<table border="1"> <tr> <td><input type="checkbox"/> TSS concentration</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> <tr> <td><input type="checkbox"/> BOD</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> <tr> <td><input type="checkbox"/> Color</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> <tr> <td><input type="checkbox"/> Total Coliform</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> <tr> <td><input type="checkbox"/> Oil and Grease</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> <tr> <td><input type="checkbox"/> Total Petroleum Hydrocarbon / BTX</td> <td> <input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly </td> </tr> </table>	<input type="checkbox"/> TSS concentration	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input type="checkbox"/> BOD	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input type="checkbox"/> Color	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input type="checkbox"/> Oil and Grease	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	<input type="checkbox"/> Total Petroleum Hydrocarbon / BTX	<input type="checkbox"/> Annual <input type="checkbox"/> Semi-annual <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly	
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Possible Environmental/ Social Impacts	Baseline Environment	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
	<input type="checkbox"/> Drinking/Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural <input type="checkbox"/> Others, specify			
<input type="checkbox"/> Competition in water use <input type="checkbox"/> Depletion of water resources	Size of population using proposed water source: <input type="checkbox"/> ≤ 1,000 persons <input type="checkbox"/> >1,000 and ≤ 5,000 persons <input type="checkbox"/> >5,000 persons Current Use of water source : <input type="checkbox"/> Fishery <input type="checkbox"/> Tourist Zone / Park <input type="checkbox"/> Recreational <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural Available/nearest water source. <input type="checkbox"/> Deep well <input type="checkbox"/> Water district/LGU <input type="checkbox"/> Surface water <input type="checkbox"/> Others, specify	<input type="checkbox"/> Implement rainwater harvesting and similar measures as an alternative source of water <input checked="" type="checkbox"/> Observe water conservation measures <input type="checkbox"/> Careful selection of project site to avoid disruption of traditional water uses <input checked="" type="checkbox"/> Obtain Water Permit from NWRB <input checked="" type="checkbox"/> Improve efficiency of water supply and distribution system <input type="checkbox"/> Increase storage capacities of water supply structures for resilience to greater climate variations and extremes <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with concerned agencies <input checked="" type="checkbox"/> Regular monitoring for occurrences of water shortages <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
<input type="checkbox"/> Increased occurrence of flooding	Is the project site located in an area identified by MGB/ PAG-ASA as flood prone? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Use appropriate design for project facilities including appropriate drainage mechanism considering the existing local drainage system. <input type="checkbox"/> Regularly remove debris and other materials that may obstruct water flow <input type="checkbox"/> Use appropriate technology (e.g., raised hand-pumps) to protect drinking water from flood contamination <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with concerned agencies <input checked="" type="checkbox"/> Regular monitor of increased frequency of flooding <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
AIR / NOISE				
<input type="checkbox"/> Air quality degradation <input type="checkbox"/> Nuisance due to generation of obnoxious/unpleasant odor	Distance to nearest community: <input type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km Is the wind direction blowing towards the nearest community most of the year? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Properly operate and maintain all emission sources (e.g. vehicles, pumps, generator, etc.) <input checked="" type="checkbox"/> Install appropriate air pollution control device/s:	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints Regular (ocular) inspection of: <input checked="" type="checkbox"/> Absence of white or black smoke from vehicles, generator, etc. <input checked="" type="checkbox"/> Regularly monitor for presence/absence of	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
		<input checked="" type="checkbox"/> Control vehicle speed to lessen suspension of road dust <input type="checkbox"/> Conduct water spraying to suppress dust sources and minimize discomfort to nearby residents <input type="checkbox"/> Control vehicle speed to lessen suspension of road dust <input type="checkbox"/> Use covered vehicles to deliver materials that may generate dust <input type="checkbox"/> Regular clean-up and good housekeeping practices <input type="checkbox"/> Use of environment-friendly deodorizer or odor masking substances <input type="checkbox"/> Spraying natural / microbial disinfectants <input type="checkbox"/> Provide adequate buffer and/or planting of trees <input type="checkbox"/> Others, specify	complaints <input checked="" type="checkbox"/> Regular monitoring for obnoxious odor	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
<input type="checkbox"/> Nuisance due to noise generation		<input type="checkbox"/> Properly operate and maintain all noise sources (e.g., vehicles, pumps, generator, etc.) <input type="checkbox"/> Install, when applicable, the appropriate noise control device/s (e.g., mufflers, silencer, sound barriers, etc.) <input type="checkbox"/> Implement appropriate operating hours <input type="checkbox"/> Provide adequate buffer and/or planting of trees <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input type="checkbox"/> Regular monitoring of buffer zones	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
<input type="checkbox"/> Gas Emission		<input type="checkbox"/> Regular and efficient maintenance of mechanical equipment	<input type="checkbox"/> Monitor for gas leak	
PEOPLE				

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
<input type="checkbox"/> Displacement of residents including indigenous people (if any) in the project site and within its vicinity <input type="checkbox"/> Enhanced employment and/or livelihood opportunities <input type="checkbox"/> Reduced employment and/or livelihood opportunities <input type="checkbox"/> Increased revenues for LGU <input type="checkbox"/> Disruption/Competiti on in delivery of public services (e.g., education, peace and order, etc.) <input type="checkbox"/> Enhanced delivery of public services (e.g., education, peace and order, etc.) <input type="checkbox"/> Increase in traffic volume and worsening of traffic flow	<p>Size of population of host barangay:</p> <p><input type="checkbox"/> ≤ 1,000 persons</p> <p><input type="checkbox"/> >1,000 and ≤ 5,000persons</p> <p><input type="checkbox"/> >5,000person</p> <p><input type="checkbox"/> Indigenous People Size:</p> <p>Classification of host barangay:</p> <p><input type="checkbox"/> Urban</p> <p><input type="checkbox"/> Rural</p> <p>Employment/Livelihood Opportunity within the host municipality</p> <p><input type="checkbox"/> High</p> <p><input type="checkbox"/> Low</p> <p>Description :</p> <p>Available services within/near the host barangay:</p> <p><input type="checkbox"/> Schools (e.g.</p>	<p><input type="checkbox"/> Provide relocation/disturbance compensation packages</p> <p><input checked="" type="checkbox"/> Prioritize local residents for employment</p> <p><input checked="" type="checkbox"/> Promptly pay local taxes and other financial obligations</p> <p><input checked="" type="checkbox"/> Regular coordination with LGU</p> <p><input type="checkbox"/> Prior consultation and coordination to minimize disruption of daily domestic activities IP rights and cultural practices</p> <p><input type="checkbox"/> Ensure participation of IPs in consultations and dialogues and consider IP rights and cultural practices in the provision of relocation/ disturbance compensation packages</p> <p><input type="checkbox"/> Provide appropriate traffic/warning signs, lighting, etc.</p> <p><input type="checkbox"/> Others, specify</p>	<p><input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints</p> <p><input checked="" type="checkbox"/> Regular coordination with LGU</p> <p><input type="checkbox"/> Others, specify</p>	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
	elementary, high school, college) <input type="checkbox"/> Health facilities (e.g., clinics, hospitals, etc.) <input type="checkbox"/> Peace and order (e.g., police outpost, Brgy. Tanod, etc.) <input type="checkbox"/> Recreation and sports facilities <input type="checkbox"/> Others, specify			
<input type="checkbox"/> Destruction/disturbance of physical cultural resources. <i>(✓ if project site has been identified to have such by NM, NHCP, NCAA and LGUs)</i>	Physical Cultural resources within the vicinity of the project site:	<input type="checkbox"/> Implement appropriate protocols based on NM, NHCP, NCAA and LGU guidelines including those for chance finds (if any). Specify:	<input type="checkbox"/> Regular coordination with NM, NHCP, NCAA and LGU	

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		<input checked="" type="checkbox"/> Cost of preventive/mitigating as well as monitoring integrated in the construction /operation cost		
<input type="checkbox"/> Impacts on community health and safety Safety Risks <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Explosion <input type="checkbox"/> Release of toxic materials <input type="checkbox"/> Structural failure	Source of risks <input checked="" type="checkbox"/> Explosive substances: <input checked="" type="checkbox"/> Flammable substances: <input type="checkbox"/> Toxic substances <input checked="" type="checkbox"/> Oil spills <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Regular coordination with LGU <input type="checkbox"/> Provide appropriate warning signs, lighting and barricades, whenever practicable <input checked="" type="checkbox"/> Observe proper housekeeping <input type="checkbox"/> Provide on-site medical services for any emergency. <input type="checkbox"/> Participate in public awareness programs on health and safety <input type="checkbox"/> Implement appropriate safety programs for both community and workers <input checked="" type="checkbox"/> Strictly comply with fire, safety and similar regulatory requirements <input type="checkbox"/> Strictly comply with requirements of RA 6969 <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input type="checkbox"/> Regular monitoring of buffer zones <input checked="" type="checkbox"/> Regular coordination with LGU <input checked="" type="checkbox"/> Regular submission of reports to concerned agency <input type="checkbox"/> Others, specify	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

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