

ASEP – RNS Solar Power Plant Project

SAMELCO I, Calbayog, Samar

Contractor’s Environmental and Social Management Plan

Gendiesel Philippines Inc. / Roofsol Energy Private Ltd.

Project Activity	Potential Environmental and Social Impacts	Proposed Mitigation Measures	ACCOMPLISHMENTS for the month of _____		
			Specific Measures Implemented	Date/ Period Implemented	Proof of Compliance/ Implementation
Land development, earthworks	<ul style="list-style-type: none"> ● Dust generated during construction, clearing and earthworks, including trenching, leveling, bund construction, backfilling and compaction activities can affect vegetation. ● Localized Increase in airborne dust can cause nuisance to dwellers at the adjacent area 	<ul style="list-style-type: none"> ● ESO will conduct orientation of workers on the ESMP mitigation measures to be implemented at the site prior to start of construction ● Delivery trucks for supplies/ equipment to avoid passing through major settlement areas, if possible, to reduce the risk of higher dust levels having a negative impact on communities. ● Surface watering or dust suppression method by means of water spray on disturbed soil and construction roadways, particularly in areas near the dwellers ● Impose speed limit (approx. 15 to 25 kph) for vehicles entering the project site. ● Dusty materials on delivery trucks will be covered with tarps ● Locate soil stockpiles away 			

	<ul style="list-style-type: none"> ● Changes in the soil structure/ degradation of soil quality as a result of erosion and compaction ● Sediment-laden surface water run-off can clog drainage canal ● Impacts associated with quarrying activities 	<p>from houses</p> <ul style="list-style-type: none"> ● Provide temporary barriers between the site and the nearby dwellers' area ● Notify the dwellers about the activities and potential increase in dust and inform them about the project Grievance Redress Mechanism ● Immediate backfilling of excavated areas ● Preserve soil that may be removed from the site for use in the landscaping/ re-vegetation ● Existing drainage will be unclogged. A swale type canal to be constructed and connected to the existing drainage. ● If fill materials need to be procured, said materials will be sourced only from permitted quarry sites. As per initial computation, land from cut locations at the site may be enough to fill the lower portions. ● Secure Building Permit, Right-of-Way Clearance, Sanitary Permit, Electrical Permit, Plumbing Permit, Excavation Permit, and Fire Safety Permit from the LGU and other government agencies prior to construction 			
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<p>Operation and maintenance of heavy equipment and vehicles that transport materials or wastes in and out of site</p>	<ul style="list-style-type: none"> ● Noise will be generated by equipment associated with the construction activities including clearing, ditch digging, material handling, vehicle movements. ● Vehicles that transport materials to and from the job site may create disturbance to dwellers ● Oil spills during refueling, maintenance, or from storage of oil and lubricants can cause soil and water contamination ● Possible damage to SAMELCO I assets due to construction activities 	<ul style="list-style-type: none"> ● All activities on site will be monitored by the assigned ESO and Safety Officer (Mr. Jonathan C. Empleo). ● Duration of noisy construction activities will be limited to daylight hours whenever possible. ● Provide temporary barriers between the site and the nearby dwellers' area ● Notify the dwellers about the schedule of noisy activities ● Transportation and material delivery will be limited to daylight hours. ● Spill contingency plan will be implemented in case of accidental oil spills or leaks. ● Use of drip pans during refueling/ maintenance of equipment ● Implement proper storage of fuel oil, lubricants, and used oil ● For vehicles with heavy loads, avoid using the concrete roads within SAMELCO I premises, if possible, to avoid damage on the road. In case of damage, GPI will repair and restore the roads to original condition prior to use. 			
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<p>Various construction activities</p>	<ul style="list-style-type: none"> ● Exposure of workers and nearby community to safety and health hazards of construction activities 	<ul style="list-style-type: none"> ● A DOLE-accredited Safety Officer (SO) is assigned to lead compliance with safety regulations and standards, and implementation of the DOLE-approved CHSP as well as the Health and Safety Manual ● The SO will conduct safety orientation to all workers prior to construction ● All workers are required to wear required PPE at all times at the site ● Toolbox meetings will be conducted daily per DOLE-approved CHSP to discuss construction risks and safety ● Provision of appropriate and sufficient water supply, sanitation facility, area for eating and resting of workers. SAMELCO I allowed the use of its existing sanitation facilities by the contractor's workers ● Cordoning off construction area in coordination with SAMELCO I to prevent trespassing ● Designation of lane for pedestrian use and placing of appropriate barriers to prevent them from using lane designated for delivery vehicles, particularly at the entrance/ exit point of SAMELCO I Complex 			
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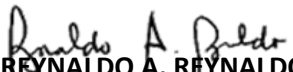
	<ul style="list-style-type: none"> • Possible extension of working hours can pose additional health and safety risks to workers and cause disturbance to nearby dwellers • Wastes generated at the site can contaminate nearby land and water resources 	<ul style="list-style-type: none"> • Place safety signages at appropriate areas along the perimeter and entry/ exit points • A traffic safety staff will be assigned to facilitate the entry/exit point on site during transport and delivery of materials and equipment. • Notify the dwellers in advance about the extension of work hours at the site until evening • Limit work at the site only until 9PM. • Plan the activities such that work in the evening will be done in the area farthest from the dwellers • Provide sufficient lighting at the work areas during evening to prevent accidents • Ensure that the workers will be compensated according to regulations for working overtime • Biodegradable wastes and residuals to be included in the wastes collected from SAMELCO I Complex through LGU trucks, brought to the City MRF and disposed of in the landfill. • Contractor to request LGU to include construction debris in 			
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		<p>the waste collection/disposal.</p> <ul style="list-style-type: none"> • Donation of recyclables to local recyclers or to be collected through LGU trucks • Domestic wastewater is collected in the septic tank. SAMELCO I allowed Contractor to use its sanitation facilities • SAMELCO I offered the use of its hazardous waste storage facility by the contractor if there are any hazardous wastes generated from the construction. The wastes will be disposed of in accordance with regulations. 			
Interaction of workers from different subcontractors and with nearby dwellers	<ul style="list-style-type: none"> • Conflict arising among workers, as well as concern/issues arising between workers and nearby dwellers 	<ul style="list-style-type: none"> • Orientation of all workers and implementation of Code of Conduct and Site Rules/Regulations • A Grievance Redress Mechanism is to be established and implemented on the SAMELCO I RNS site. • GPI will have a Grievance Officer (Mr. Reynaldo A. Reynaldo) on site to address/resolve complaints filed related to the project. 			

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