

**Guyana Shore Base Inc. (GYSBI) - GUYANA
Environmental and Social Action Plan (ESAP)**

No.	Aspect	Action	Deliverable	Delivery date
PS 1: Assessment and Management of Environmental and Social Risks and Impacts				
1.1	Environmental and Social Risk and Impact Assessment	<p>1. Update the Project's environmental and social baseline by including: i) an air quality model that analyzes the plumes generated by the Tiger Tanks and the IWTF working together; ii) an air quality assessment based on empirical (field) data; iii) a noise level assessment, especially near external critical receptors; iv) a groundwater analysis; v) a superficial water and sediment quality assessment; vi) bathymetric surveys of GYSBI's berthing areas; vii) a climate change exposure assessment; viii) Primary seasonal data from surveys on benthos, plankton, fish and aquatic mammals; and ix) a socioeconomic assessment to identify new stakeholders (fishermen associations, NGOs, etc.); locate community infrastructure (schools, churches, hospitals, fish markets, etc.); identify potential river traffic interference; and identify vulnerable groups living or working in the project's area of influence.</p> <p>2. Prepare a Quantitative Risk Assessment (QRA) considering the Fuel Farm, the Tiger Tanks Incinerator, and the Integrated Waste Management Facility, taking as reference the NFPA 230 Standard for the Fire Protection of Storage and the NFPA 231 Standard for General Storage.</p> <p>3. Update the Project's E&S and OHS risk matrix, by including GYSBI's, its tenants' and contractors' activities.</p>	<p>1. Updated Project's environmental and social baseline</p> <p>2. Quantitative Risk Assessment (QRA).</p> <p>3. Updated E&S and OHS risk matrix.</p>	<p>1. One year after first disbursement.</p> <p>2. One year after first disbursement.</p> <p>3. One year after first disbursement.</p>
1.2	Environmental Management System (ESMS)	<p>1. Update the QHSSE Management System (QHSSE-MS) by including: i) an Environmental and Social Policy; ii) the identification of risks and impacts; iii) a list and details of management programs (compliance assurance; integrated waste management; air quality and emissions; water and wastewater; environment, health and safety, etc.); iv) a description of the organizational capacity and competencies to manage the QHSSE-MS; v) an Integrated Emergency Preparedness and Response Plan; vi) a Stakeholder Engagement Plan; vii) a Monitoring and Review Plan; viii) and internal audit procedure; ix) a Contractor Assessment & Management Procedure; and x) and Bridging Document Checklist Procedure.</p> <p>2. Develop a Compliance Assurance Plan that includes specific procedures for the following topics: i) QHSSE-MS critical analysis; ii) non-compliance and corrective action management; iii) legal compliance; and iv) own and third-party permit compliance.</p> <p>3. Perform a QHSSE Management System audit.</p> <p>4. Prepare an Environmental, Health and Safety Supervision Procedure for contractors, subcontractors, and tenants, including specific protocols to conduct EHS inspections, frequency of such inspections, EHS requirements, methods and communication flows regarding the identification and correction of EHS deviations, and EHS performance monitoring and reporting requirements</p>	<p>1. Updated QHSSE Management System (ESMS).</p> <p>2. Compliance Assurance Plan.</p> <p>3. QHSSE-MS audit report.</p> <p>4. Environmental, Health & Safety Supervision Procedure.</p>	<p>1. One year after first disbursement.</p> <p>2.</p> <p>3. One year after first disbursement.</p> <p>4. One year after first disbursement.</p> <p>5. Three months after first disbursement.</p>
1.3	Environmental Permits	<p>1. Prepare a Permitting Compliance Report that includes the compliance status with permits issued by the EPA (environmental) and any other licenses or permits that contain compliance requirements</p>	<p>1. Permitting Compliance Report</p>	<p>1. Prior to first disbursement.</p>

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1.4	Organizational Capacity and Competency	1. Include an environmental specialist to strengthen GYSBI's team.	1. Copy of work contract or designation.	1. Prior to first disbursement.
		2. Update the QHSSE-MS training program to include specific training on waste management, wastewater management, air emissions, water reduction measures, gender awareness, nondiscrimination, and behavior and respect to women, among others.	2. Updated QHSSE-MS training program.	2. Three months after first disbursement.
		3. Execute the training program.	3. Records of training events.	3. Six months after first disbursement and thereafter as part of the Environmental and Social Compliance Report (ESCR)
1.5	Emergency Preparedness & Response	1. Prepare an overarching and Integrated Emergency Preparedness and Response Plan (EPRP) that encompasses onshore and river-related scenarios, includes coordination and support actions between all GYSBI's stakeholders (contractors, tenants, offtaker, etc.) and considers: i) natural impacts and risks; ii) cumulative impacts and risks; iii) air quality emergencies; and iv) fuel and oil spill scenarios and their associated impacts on the Demerara River.	1. Integrated Emergency Preparedness and Response Plan (EPRP).	1. One year after first disbursement.
		2. Perform drill and simulations to test the EPRP.	2. Report on drills and simulations.	2. As part of the ESCR after the EPRP has been approved.
1.6	Stakeholder Engagement	1. Prepare and implement a Stakeholder Engagement Plan (SEP) that includes: i) a stakeholder mapping; ii) a disclosure mechanism; and iii) the description of communication and dissemination channels to be used.	1. Stakeholder Engagement Plan (SEP).	1. Six months after first disbursement.
		2. Provide evidence of the execution of the SEP	2. Reports, minutes of meetings.	2. As part of the ESCR.
1.7	Grievance mechanism	1. Implement an external grievance mechanism procedure to capture and process stakeholders' complaints and requests that contains: i) the ways grievance will be captured, including anonymous grievances; ii) the internal processes to manage the grievances; iii) the time frameworks to respond to the grievances; iii) the resolutions communication ways and times; and iv) the details of the people responsible for each step in the mechanism.	1. External grievance mechanism procedure.	1. Six months after first disbursement.
		2. Provide a summary of the grievances captured by the external mechanism.	2. Report on grievances.	2. As part of the ESCR
PS 2: Labor and Working Conditions				
2.1	Human Resources Policies and Procedures	1. Update the Human Resources Policy by making explicit GYSBI's commitment to the ILO and UN Conventions on the non-use of forced and child labor, non-discrimination, as well as respect for human rights.	1. Updated Human Resources Policy.	1. Prior to first disbursement.
2.2	Grievance Mechanism	1. Implement an internal grievance mechanism to capture and process claims and requests from GYSBI's, tenants' and contractors' workers that contains: i) the way grievance will be captured, included anonymous grievances; ii) the internal processes to manage the grievance; iii) the time frameworks to respond to a grievance; iii) the resolutions communication ways and times; and iv) the details of the people responsible for each step in the mechanism.	1. Internal grievance mechanism procedure.	1. Six months after first disbursement.
		2. Provide a summary of the grievances captured by the internal mechanism.	2. Report on grievances.	2. As part of the ESCR
2.3	Supply Chain	1. Revise the terms and conditions for potential vendors to ensure the latter compliance with labor issues.	1. Reviewed terms and conditions for vendors.	1. Six months after first disbursement.
		2. Prepare a specific management procedure to monitor GYSBI's supplier's performance regarding labor and environmental issues, including routine checking.	2. Supplier performance assessment and monitoring procedure.	2. Six months after first disbursement.
PS 3: Resource Efficiency and Pollution Prevention				

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3.1	Greenhouse Gases	1. Present greenhouse gas (GHG) inventory considering Scope 1 and 2.	1. GHG Inventory.	1. Prior to first disbursement, and thereafter as part of the ESCR.
3.2	Pollution Prevention	1. Prepare or update the following plans: i) integrated waste management, including waste management protocols and procedures for hazardous waste; ii) water and wastewater quality management, comprising water quality monitoring of the Demerara River and adjacent canal, as well of the internal drainage systems and the receiving water bodies; iii) groundwater quality monitoring, including sampling procedures for areas with greater susceptibility to contamination; iv) integrated noise monitoring, including noise levels at critical receptors external to the Project; v) air quality monitoring including sensitive receptors and surrounding communities; and vi) environmental air emissions and ambient air quality.	1. Copy of the integrated waste management, the water and wastewater quality management, the groundwater quality monitoring, the integrated noise monitoring, the air quality monitoring and the environmental air emissions and ambient air quality plans.	1. One year after first disbursement.
		2. Implement the integrated waste management, the water and wastewater quality management, the groundwater quality monitoring, the integrated noise monitoring, the air quality monitoring and the environmental air emissions and ambient air quality plans.	2. Reports on implementation.	2. As part of the ESCR.
PS 4: Community Health, Safety, and Security				
4.1	Community Health & Safety	1. Prepare a traffic management plan that includes: i) traffic monitoring; ii) assessment of community safety and traffic retentions; and iii) measures to minimize traffic disturbance to the neighboring communities.	1. Traffic management and monitoring plan.	1. Three months after first disbursement.
		2. Implement the traffic management plan.	2. Reports on traffic monitoring and management	2. Semiannually.
4.2	Security Personnel	1. Update the Security Management Plan, by including principles of engagement, minimum qualifications for security personnel, training schedules, the requirement to obtain information on previous history of security personnel, and procedures for the use of force and dealing with the public.	1. Revised Security Management Plan.	1. Prior to first disbursement.
PS 5: Land Acquisition and Involuntary Resettlement				
5.1	Economic Displacement	1. If the results from the supplementary socioeconomic baseline indicate that some people may be subject to economic displacement, prepare a livelihood restoration plan (LRP).	1. Livelihood Restoration Plan (if applicable).	1. Nine months after first disbursement (if applicable).
		2. Report on the implementation of the LRP (if applicable).	2. Report on the implementation of the LRP (if applicable).	2. As part of the ESCR (if applicable).
		3. Produce a final report (audit) on the implementation of the LRP (if applicable)	3. Final report (audit) on the implementation of the LRP (if applicable)	3. Three years after the beginning of the works contemplated in the Project (if applicable).
PS 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources				
6.1	Conservation of the biodiversity	1. Prepare an Estuarine Biodiversity Monitoring Program, including: i) appropriate methods to monitor fish, benthic species, plankton, and marine mammals as well as potential alien species; ii) the identification of vulnerable, near threatened and threatened species under the IUCN Lists; and iii) appropriate action to mitigate impacts on these species (if any).	1. Estuarine Biodiversity Monitoring Program.	1. One year after first disbursement.
		2. Implement the estuarine biodiversity monitoring program.	2. Reports on the estuarine biodiversity monitoring program.	2. Fifteen months months after first disbursement and thereafter semiannually.

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		3. If applicable, adopt action plans to minimize impacts from the project on IUCN listed species.	3. Action plans for the protection of IUCN Listed species (if applicable).	3. As part of the ESCR after the EPRP has been approved.