

Prayag Raj Project Summary



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Project Overview

Marine Bunkering Services- Sir Service Station is expanding its energy logistics footprint by introducing marine bunkering services, which will enable the import, storage, and transfer of fuel directly to ships and ports in various parts of the county where customers required for example.

Complementary Operations. This project complements the Company's existing operations that serve remote miners, fishermen and communities across Guyana. The project's area of influence includes designated marine zones and port facilities in Guyana, with potential impacts on local communities, marine ecosystems, and the economy.

Project Duration- The project is expecting to commence when the Environmental Permit is granted for such operations. The initial set-up phase may take approximately four months to get all the necessary required documentations.

- The project will take place in Guyana's marine zones and port facilities, specifically at Sir Wharf on the East Bank Demerara, which will serve as the primary vessel port and storage site for fuel bunkering. Here's a breakdown of the key aspects:
- Location- Sir's Wharf facility is situated at Block K 1 & 2 Upper North Pearl, East Bank Demerara, approximately 28 km to Georgetown, which is Guyana's principal port and a strategic hub for maritime trade in the Regions.
- Port Facilities- Sir's Wharf facility is equipped to handle bulk, and fuel terminal operations, making it an ideal location for bunkering and fuel transfer activities. The project will involve both Ship-to-Ship (STS) and Ship-to-Shore Transfers,

Google map

<https://maps.app.goo.gl/xnB84JvUt1F8ftVz8>

Regulatory Considerations

EP Act 1996 & Regulations: The project will need to comply with the Environmental Protection Agency's (EPA) regulations and guidelines for bunkering operations.

Safety Protocols: The project will need to implement safety protocols to minimize the risk of spills, emissions, and other environmental impacts.

Potential Environmental Effects are as follows:

- Water Quality-Risk of spills during Ship-to-Ship (STS) or ship to shore transfers.
- Air- Emissions from tankers and transport fleets
- Natural Resources- Use of refined fuel and energy inputs,
- Noise- Operational noise near populated areas.
- Land/Soil- Potential contamination at storage sites.
- Waste management- Potential of generating both non-hazardous and hazardous waste.

Mitigation Measures are as follows:

- Bunkering Procedures- Establishment of strict bunkering procedures including pre-transfer checks, monitoring of fuel transfers, emergency shut down procedures ect
- Spill Response Plan: A spill response plan will be required to mitigate the risk of spills during STS or port transfers which include spill containment booms and spill kits among other measures. Double haul tankers to reduce spill in the evident of collision or any other emergency.
- Emission Reduction Measures: Measures will be needed to reduce emissions from tankers and transport fleet, such as using cleaner fuel (low sulphur) or implementing emission-reducing technologies on the vessel via retrofitting.
- Noise Mitigation: Measures will be needed to mitigate operational noise near populated areas, such as noise barriers or scheduling operations during less busy times and implementing a maintenance schedule for heavy duty equipment.
- Contamination Prevention: Measures will be needed to prevent contamination at storage sites, such as implementing leak detection systems and regular monitoring. No ballast water discharge according to MARPOL 73/78.
- Waste Management- Waste will be manage in accordance with the garbage management plan

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Key Environmental Benefits of Bunkering

Project's design will have the potential to deliver tangible environmental benefits:

- A. Support for local economies
- B. Reduced Road Transport Risks
- C. Lower Carbon Emissions
- D. Minimized risk of fuel spills during transport
- E. Efficient Fuel Use
- F. Ecosystem Protection
- G. Cleaner Energy Access

Non-Technical; Summary

Sir Service Station Bunkering Operation, is committed to fully realize these benefits, bunkering operations must be conducted with strict adherence to environmental regulations and safety standards to prevent spills, emissions, and other potential environmental impacts. Implementing best practices and technologies for spill prevention, emission control, and efficient operations is crucial for minimizing the environmental footprint of bunkering activities.