PROJECT SUMMARY: CONSTRUCTION & OPERATION OF A FUEL DEPOT

AMAR & AMAR ENTERPRISE FUEL DEPOT

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Introduction

Our company, Amar & Amar # 2 location, proposes the construction and operation of a modern gas station at Long Creek, Soesdyke Linden Highway The project aims to provide a safe, efficient, and customer-friendly fueling experience for the local community. The gas station will offer a range of fuel types, including gasoline, diesel, kerosene oil, lube as well as a convenience store. An application was made to the Environmental Protection Agency (EPA) for the construction and operation of a Gas Station on July 02, 2025. The facility is expected to operate from Monday to Saturday, 24 hours, with staffs working 8 hours swifts.

The Gas Station and Lubricant store will be constructed with an area of 2.89 acre leased from the Guyana Lands and Surveys Commission.

The fuel for its operation will be provided by the Guyana Oil Company Limited (GUYOIL). The Gas Station will have two (2) underground storage tanks with 20000 gallons gasoline and two (2) aboveground storage tanks with 20000gallons diesel, 3000 gallons and fuel dispensers/ pumps. Concrete drainage networks will be constructed.

Objectives:

1. Provide a reliable fueling station- Meet the growing demand for fuel in the area and provide a convenient stop for motorists.

2. Enhance customer experience- Offer a modern, well-designed facility with amenities such as a convenience store, restrooms, and parking.

3. Ensure safety and security- Implement safety features and protocols to protect customers, employees, and the environment.

4. Minimize environmental impact-Incorporate sustainable design elements and practices to reduce the station's environmental footprint.

Scope of Work

1. Site preparation: Clearing, grading, and excavation of the site.

2. Building construction - Construction of the gas station building, including the convenience store, restrooms, and offices.

3. Fuel dispenser installation - Installation of fuel dispensers and related piping and electrical systems.

4. Landscaping and lighting - Installation of landscaping and lighting to enhance the site's appearance and safety.

5. Utility connections - Connection to electricity which will be provided by Guyana Power Light (GPL) and water by Guyana Water Inc. (GWI); however, a backup generator with the capacity of 25 kVA will be onsite to provide power in case of power outage.

Project Design:

1. Design and layout - The gas station will be designed to meet local building codes and regulations, with a layout that ensures safe and efficient fueling operations in keeping with the approved site plan by Central Housing and Planning Authority.

2. Fuel storage and handling - The station will be equipped with underground fuel storage tanks and a fuel handling system that meets industry standards.

3. Safety features - The station will be equipped with safety features such as fire extinguisher, emergency shutdown systems, spill containment measures, oil - water separator and leak detection measures but not limited to.

Timeline:

The project is expected to be completed within 24 months, with the following milestones:

1. Site preparation and excavation: 4 months

2. Building construction: 8 months

3. Fuel dispenser installation: 2 months

4. Landscaping and lighting: 1 month

5. Final inspections and testing: 1 month

Potential Environmental Impacts and Mitigation Measures

To minimize the environmental impact of the gas station, the following safeguards will be implemented at the facility:

1. Spill containment- A spill containment kits will be installed to prevent fuel spills from entering the stormwater drainage system or groundwater.

2. Underground storage tanks- The underground storage tanks will be designed and installed to meet industry standards and regulatory requirements, with features such as leak detection and corrosion protection.

3. Fuel dispenser secondary containment-The fuel dispensers will be equipped with secondary containment to prevent fuel spills and leaks from reaching the environment.

4. Stormwater management- A stormwater management system will be designed to capture via the oil water separator thus reducing the risk of pollution and environmental harm.

5. Waste management-: A waste management plan will be implemented to ensure proper disposal of hazardous and non-hazardous waste, including used oil, filters, and other materials.

6. Regular maintenance- Regular maintenance will be performed on the gas station's equipment and facilities to prevent leaks, spills, and other environmental incidents.

8. Employee training- Employees will receive training on environmental procedures and protocols, including fire safety, spill response and waste management.

9. Environmental management system- An environmental management system will be implemented to ensure ongoing environmental performance and compliance with regulatory requirements by Environmental Protection Agency (EPA).

Stormwater Management:

- A stormwater drainage system with oil-water separators and sediment traps will be installed to treat runoff.
- Permeable paving and vegetative buffers (decorative plants will be planted around the facility to add the aesthetic) and will be used where possible to reduce surface runoff.

Waste Management:

- A waste management plan will be implemented for the disposal of both hazardous (e.g., used oil, fuel filters) and non-hazardous waste (e.g food boxes, plastic bottles)
- Waste collection and disposal will be conducted by a private disposal company.

Fire\explosion

- Refueling activities- refueling will be conducted in accordance with local standards on a permeable surface to avoid the risk of water and soil pollution.

- Smoking by patrons and employees- 'No smoking' and other safety signage will be erected throughout the facility.

- Gas leakage and poor handling- The facility will be equipped with firefighting equipment such as sand buckets and fire extinguishers.

Noise emissions

- Use of equipment/machinery for construction and maintenance - Construction work will be scheduled to ensure noisy activities are conducted within the stipulated time (600a.m -6;00pm)
- Vehicles transporting materials for construction activities- This will be conducted during stipulated time and maintenance will be done on vehicles to ensure optimum performance.
- Noise from generator- the generator will be equipped will sound attenuation equipment and place in an enclosed room to reduce the noise levels when in operation.

Conclusion:

The construction of a modern gas station at Long Creek, Soesdyke, Linden Highway will provide a valuable service to the local community, while also creating jobs and stimulating economic growth. With careful planning and execution, we are confident that this project will be a success and meet the needs of our customers.