

ATLANTIC SEAFOOD

PROJECT SUMMARY

Name of Developer: Jagdesh Vishal Singh

Developer's Address: 48 Shell Road, Kitty, Georgetown

Contact Details: +592-663-2670

Business Name: Atlantic Seafood

Project Location: Lot 8 Unity, Mahaica, East Coast Demerara.

Project Type: Fish Processing

Project Duration: An additional 50 years

Project Location and Description

The fish processing facility is located at Lot 8 Unity, Mahaica, East Coast Demerara and can be accessed via the Mahaica New Road. This facility is an existing one that utilizes approximately 60 ft x 180 ft of a land with dimensions of 60 ft x 600 ft. The facility is a single flat building with room for an office, the fish processing area, washroom and changing rooms, filtration system and an ice making facility (See Site Plan). There are no current plans to expand the operation.

The surroundings of the operation are mixed in nature, as there are residents to the South, a concrete batching plant to the North-east and a gas station to the North-west. The access road to the facility is located towards the West. Additionally, the facility is located approximately 1 km West of the Atlantic Ocean. Please refer to figures 1 and 2 to view the location of the facility and the surrounding land uses.



Figure 1: Map showing location of facility

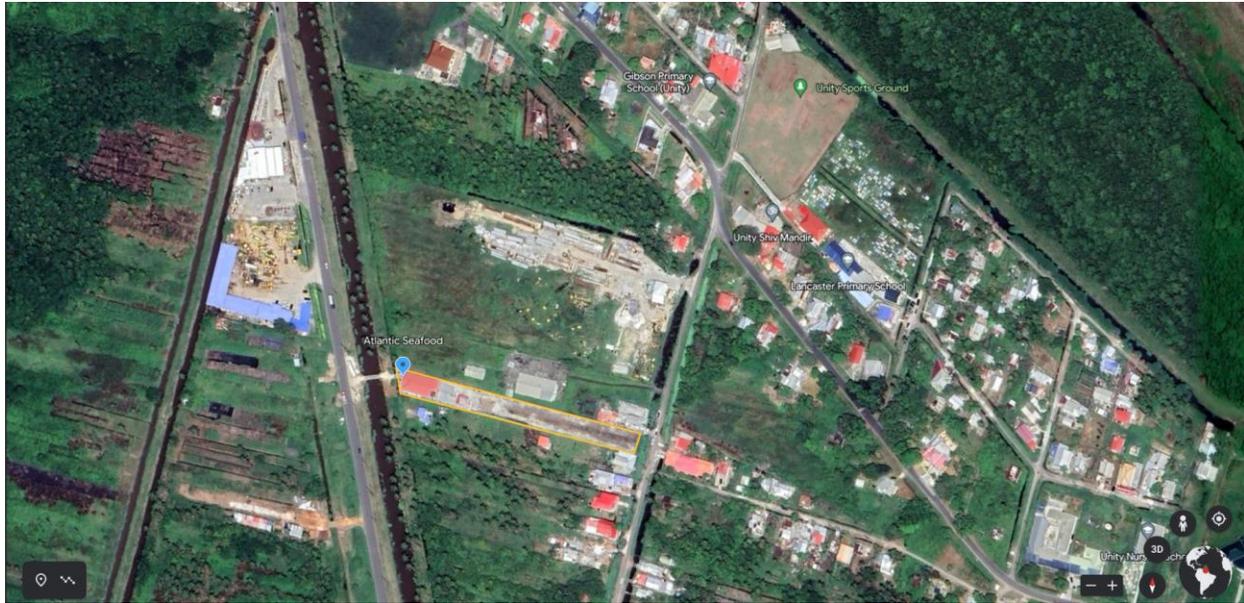


Figure 2: Map showing surrounding land uses.

General Information

Eight (8) persons will be employed to work at the fish processing plant. Working hours will be 7:30 hrs to 17:00 hrs, Monday to Friday. All loading and offloading of fish will occur during the working hours. Personal Protective Equipment (PPE) are provided to the workers and it includes gloves, aprons, long boots and hairnets. A First Aid Kit is located in the office to treat any minor cut(s) or bruise(s) and a vehicle is on standby to transport any injured person to the nearest Hospital. Fire extinguishers will be placed at strategic points of the operation and a “No Smoking” sign will be placed in a contiguous area. A footbath is located at the employee entrance way of the facility.

Utilities such as water and electricity are provided by Guyana Water Incorporated (GWI) and the Guyana Power and Light Incorporated (GPL) and telephone service is provided by the Guyana Telephone and Telegraph Company (GTT). Fuel will not be stored onsite and no generator will be used as a back-up. Water will also be stored on site in five (5) black tanks. Additionally, there are three (3) compressors on site; two (2) twenty tonnes and one (1) ten tonne.

Operation

The **operation process** of the facility is as follows:

1. **Receiving:** The facility receives unprocessed fish from fishermen etc. These persons bring the fish to the facility, where it is weighed and collected in 4 ft x 4 ft grey tubs. The fish is then transported to the receiving area to be graded and separated by size and type into bins before being iced down.
2. **Processing:** Once the fish has been graded and separated, it is taken to the processing area, where the scales, fins and guts are removed. The fish is also washed to remove loose tissues and blood residue.
3. **Packaging:** Once the fish has been thoroughly processed, it is packaged in plastic bags and labelled.
4. **Blast Freezing:** After packaging, the fish is taken to the blast freezer, where it remains for about one (1) day.
5. **Holding Room:** After blast freezing, the packaged fish is then packed in boxes before being placed in a refrigerated holding room, where it is kept until shipment (approximately for a week).

It is estimated that 30,000 lbs of fish is produced by the facility per month.

Potential Environmental Impacts and Mitigation Measures

Potential Environmental Impacts	Proposed Mitigation Measures
<p>Odour Nuisance: Odour nuisance from the facility could be emitted from the improper management of wastes and the improper cleaning of the facility.</p>	<p>To mitigate this impact, the facility will be cleaned daily, before and after production with bleach. Additionally, wastes will be properly managed as outlined in the waste management section below.</p>
<p>Water Pollution: Water pollution from the facility could occur due to the release of untreated effluent into the water ways.</p>	<p>To mitigate this impact, there are screens in place at all points of release from the facility to trap all organic waste from the fish (scales, guts, fins) and prevent them from being released into the drainage system. Additionally, the wastewater from the facility is treated with chlorine tablets before being released into the drainage systems.</p>
<p>Noise Nuisance: Noise nuisance from the facility could occur from the operation of the three compressors and the filtration system on site.</p>	<p>To mitigate this impact, the compressors have their appropriate shells and are bordered with concrete walls to reduce noise emissions. The filtration system is also enclosed in a room with concrete walls to minimize noise emissions into the environment.</p>

Waste Management

Solid waste management: Solid waste from employees such as food boxes, bottles etc., will be collected in garbage receptacles on site and disposed of by a garbage disposal service.

Organic Waste: Organic waste from the fish processing facility including fish scales, guts and fins will be collected and stored in grey 4 ft x 4 ft tubs. These wastes are removed from the facility daily, sometimes twice daily (dependent on the volume), by pig farmers who use the waste as food for their animals.

Municipal Waste: Municipal waste from the facility is discharged into the septic tank. The septic tank is accessible for cleaning and will be emptied when full by a solid waste disposal service.

Effluent: The effluent released from the facility is treated by removing solids from the stream and treated using chlorine. The effluent is then released into the drainage canal.