

Poultry Rearing and Processing Facility

Project Summary

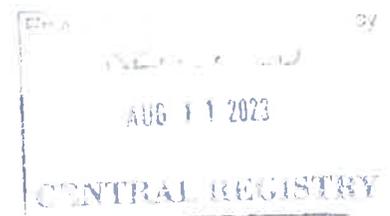


Developer: Sayaad Karim

Project Address: Lot 2 Drill Mahaicony East Coast Demerara

Prepared by: Mr. Linden James

Date prepared: 12th July 2023



Introduction

The Sayaad chicken farm is a new venture being introduced to the local market. It is an activity that is determined to produce quality chicken products to the local and foreign markets.

All of our operations are done in accordance with our Mission Statement “Providing quality production everyday”, in this regard we intend to take pride in the production as well as other contributing factors such as the Environment and our Human Resources. That is why we have considered and will implement a number of Environmental Practices to ensure our products are safely produced as well to ensure the well- being of our employees.

Description of the Site

The Poultry processing and rearing facility is located at lot 2 Drill Mahaicony East Coast Demerara, it can be easily accessed via the main public road turning into the village of Drill using a narrow roadway which leads directly to the operation facility. It will be the only poultry processing facility within the area.

Location

The facility is located in an isolated area whereby all surround lands are owned and used for the agricultural practices such as crop farming more specifically Rice farming. It is not a heavily buffered or vegetative area but distances from residents and Agricultural activities are very significant. It is also important to note that there is a **North- West** wind direction. To give a clear view of the location, identified below are the directions along with surrounding land uses:

North- Rice Plantation

South- Rice Plantation

East - Rice Land

West – Vacant Agricultural Lands

Project Design

Poultry production involves several stages before poultry products reach consumers, including the rearing of these birds from hatch to peak performance and the subsequent harvesting and processing of broilers.

This poultry processing and rearing facility will undertake both the rearing of broilers and processing of same. The facility is not yet a constructed facility and construction and operations are intended to commence at the soonest. Upon completion of the construction of the facility, it is expected that operations will commence immediately.

Operation Phases

Construction of Pens.

It is estimated that 2 pens will be constructed on site. These pens will be built following the Guidelines provided by the GLDA. Each pen will consist of:

- concrete base off the ground,
- Hardwood framing,
- zinc roofing with gutter of a 3meters overhang
- chicken mesh 1/2 inch spacing. All meeting the requirement as outline by the Guyana Life Stock Development Association.

Operation Phase:

Chicks will be sourced from various hatcheries within the region. They will be reared for a period of 6weeks using an **all-in- all -out system**. An approximate total of 50,000 birds will be reared in a total of 2 pens of dimensions 32ft*400ft*11ft.

Utilities; The site location already has lights (GPL) and a water main from (GWI).

Processing facility

Is yet to be constructed, however we intend to practice both manual and mechanical processing. It is intended that birds will be processed per order and will be stored at the facility for a short period of time before sale. Processing will be conducted once weekly.

Processing involves slaughtering the birds, cutting the meat, inspecting it to ensure that it is safe for consumption, packaging for subsequent sale to consumers.

General Information of Poultry Production Facility

All products produced are for the purposes of Local Sale.

The facility will accommodate a total of 5 employees. They will be provided Protective gear such as long boots, Coat, hair nets, gloves etc.

- ✓ Water Supplied for drinking purposes of the employees will be purchased on a weekly basis, while water used for the cleaning of facility and other domestic activities will be provided by the GWI. Employees will also be provided one flush toilet system situated directly onsite.

- ✓ Electricity will be provided by one generator system; the size for the generator is to be determined upon commencement of operations onsite.

Waste Management

During each stage of production, it is expected that waste will be generated, the main areas of waste production are identified below:

Processing Phase- Blood, Effluent and Poultry entrails

Rearing Phase- Litter, Dead birds

Construction Phase- construction waste material.

<i>Types of Waste</i>	<i>Phase</i>	<i>Potential Impacts</i>
<i>Bedding material, Dead birds</i>	<i>Rearing</i>	<i>Has the Potential to produce odour when wet and if stored/ removed incorrectly.</i>
<i>Poultry entrails, effluent, blood</i>	<i>Processing</i>	<i>This has the potential to affect nearby water bodies.</i>
<i>Dust, construction waste</i>	<i>Construction Phase</i>	<i>Not significant, however if waste is not correctly stored has to potential to deplete the aesthetic quality of the facility.</i>

Mitigation Plans

<i>Type Of Waste</i>	<i>Environmental Parameters</i>	<i>Plan to Mitigate</i>
<i>Bedding material, Dead birds</i>	<i>Air and Land</i>	<i>Bedding material will be removed by dry scraping and will be stored in a covered facility for later distribution to nearby farmers to be used as organic fertilizers. Dead birds will be buried at a designated site aback of the facility.</i>
<i>Poultry entrails, effluent, blood, feathers</i>	<i>Air, Land and Water</i>	Effluent will be directed into a septic tank waste water storage system; poultry entrails will be stored for distribution to pig rearers while feathers will be collected in polyethylene bags for disposal at an approved disposal site.
<i>Dust, construction waste</i>	<i>Air and Land</i>	<i>All waste generated from construction will be heaped and stored in a</i>

		<i>designated</i> area for reuse or distribution.
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