

Equipment Agency
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CENTRAL REGISTRY

PROJECT SUMMARY

Modernized Commercial Layer Project

EDUN POULTRY FARMS INC.

**HEAD OFFICE: 24-25 BUZZBY ROAD, CRAIG,
EAST BANK DEMERARA.**

FARM: 54 GARDEN OF EDEN, EAST BANK DEMERARA.

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May 2, 2023

Background to Project Summary

Edun's Poultry Farms was granted an Environmental Permit by the Environmental Protection Agency (EPA) in 2001, just after the farm was acquired in 2000. This Permit (Ref. # 20011102-EDUNP) expired in 2004.

After the death of Mr. Abu Edun, Proprietor, in 2016, new management of Edun's Poultry Farms engaged the EPA and submitted an application for Environmental Authorization in 2018. The application for renewal was accepted but an Environmental Management Plan (EMP) was required to be submitted. This letter was communicated to us on June 27, 2019.

Amid the Covid-19 Pandemic, Edun's Poultry Farms made contact with Environmental Management Consultants (EMC) who agreed to conduct their site visit accordingly in order to prepare the EMP. This Plan was submitted on November 19, 2020.

EPA responded in March 2021, requesting further clarifications on the EMP. An Addendum was prepared by EMC and reviewed in May 2021. However, this Addendum was never forwarded to EPA on our behalf by EMC until September 28, 2021.

Additional documentation was subsequently requested, some of which we have now successfully acquired. The business has since been Incorporated on February 18, 2022 and renamed ***Edun Poultry Farms Inc.***

Description of Site

The land used for the project is located at 54 First Street, Garden of Eden, East Bank Demerara. It is approximately 1.8 km in from the East Bank Public Road. Prior to our acquisition, the land was swampland which was used for cattle grazing. (Figure 2.2).

Immediately to the west of *Edun Poultry Farms Inc.* are small housing units which have small peasant farms while to the northwest, there are uncleared lands with large trees. To the south, there is an irrigation canal followed by the access road and a cash crop farm. Immediately north of the site there is a drainage canal, followed by a new housing scheme currently being developed by a private developer. East of the site are lands utilized for crop farming. (Figure 4.15).

The length of the street where the farm is located is approximately 2.3 km long and hosts several small and medium size farms, and another large-scale poultry farm. There are five major poultry farms with more than 4 poultry houses each. There is also a Seafood Processing Plant which is located closer to the East Bank Demerara Public Road. Some lands are utilized for grazing cattle, sheep and goats.

Along the Public Road within Garden of Eden are the G.P.L Power Plant, the Guyana Defence Force Farm and the Demerara Harbour Bridge Corp. Asphalt Plant. The East Demerara Water Conservancy is located east of the village and supplies water for irrigation purposes.



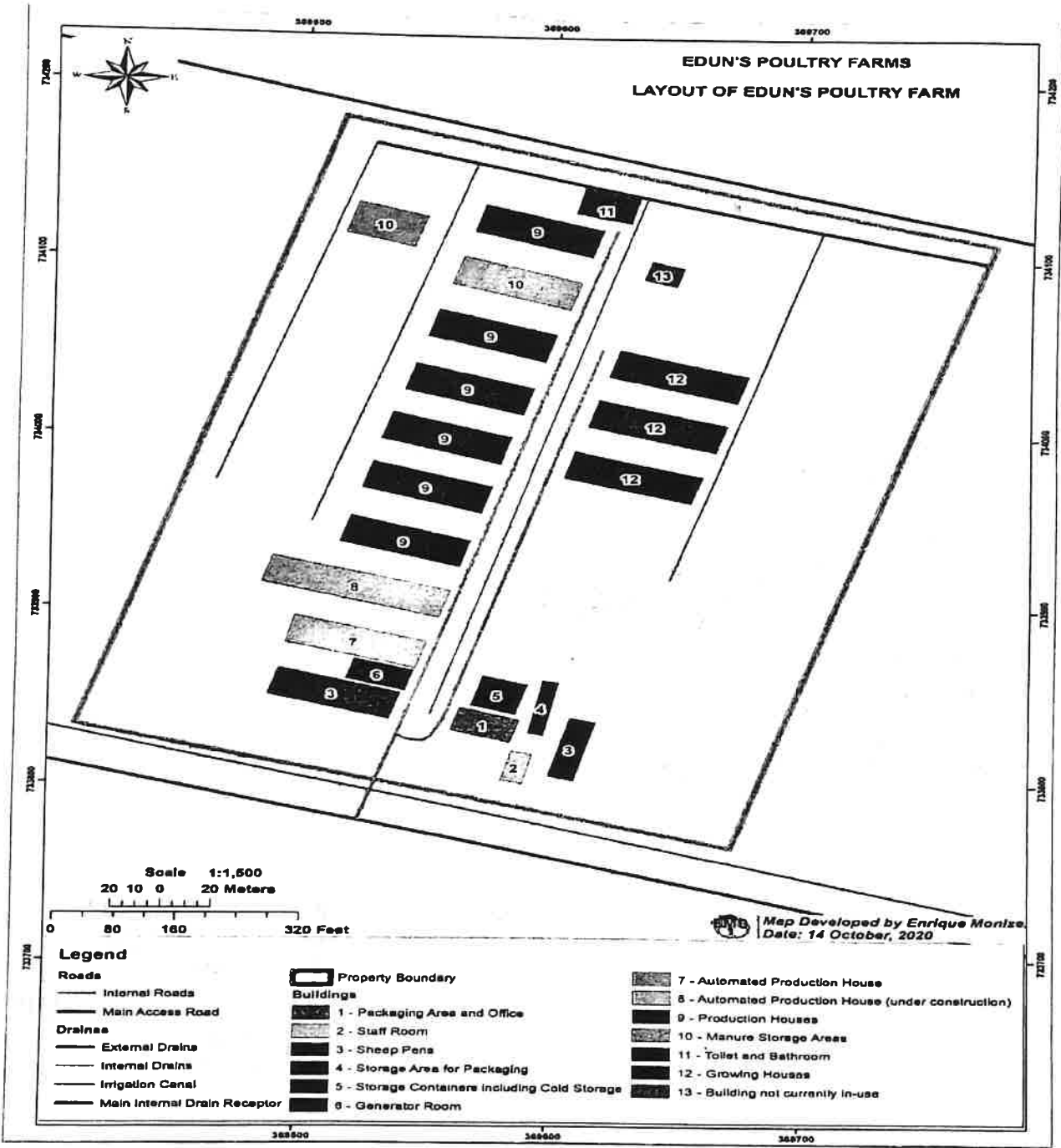


Figure 2-3: Site Layout of Edun's Poultry Farms

Project Design

From the establishment of the project in 2000, the focus was on production of eggs for the local market. Efforts to improve and expand the operation to increase productivity and ensure the operation is conducted in an efficient and sustainable manner has always been our priority.

Hence, in 2018, *Edun's Poultry Farms* entered into an Investment Agreement with *Go-Invest* for an expansion project under which the egg production was transitioned to an automated operation. This was in keeping with Guyana's National Agriculture Strategy for 2013-2020: Vision 2020.

The layout of the farm consists of two main sections: the Growing Section and the Production Section. (Figure 2.3).

Growing Section

Three Growing houses are open sided and constructed with wood, concrete and mesh and measure 49x12 meters. Birds are reared in these houses from one day old to 16 weeks of age and are equipped with automatic feeders and drinkers for the chicks.

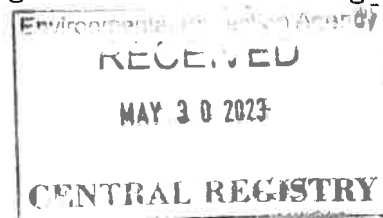
Production Section

Of the 10 wooden and concrete structures which were built for the Production section, two were modified using concrete flooring, wooden posts, metal rafters, purlins, mesh and cooling pads to accommodate a fully automated layer system. The equipment in these two automated houses was set up to house pullets from 16 weeks of age to approximately 90 weeks of age and uses electricity from the Guyana Power & Light. A standby generator is on site for power outages.

Water is sourced from a well on the farm and from the fresh water irrigation canal. The water is filtered and chlorinated before using for the poultry livestock on the farm.

The manure belt is designed to catch the manure from the layers which falls onto conveyor belts located below the cages and is removed twice weekly via the conveyor belt. This is connected by a disposal chute which takes the manure out of the production house and a trailer is placed outside the facility into which the manure is disposed. The manure is then transported to the manure storage shed where it is allowed to dry naturally. Farmers are notified and invited to purchase and remove the manure from the premises.

Other waste generated on the farm is collected by Puran Bros. Disposal Service on a weekly basis. Large packaging materials, damaged egg trays and cardboard boxes are stockpiled and burned in a designated area located along the northern boundary of the compound.



Throughout the production process, bird health is monitored by Management and any advice and medical assistance is provided by overseas vets when needed. Veterinary services are sponsored by the suppliers of our poultry premix and equipment.

The project currently has a capital investment of G\$200,000,000 and employs 18 direct employees and 15 casual employees. These employees include Farm Labourers, Egg Attendants, Sales Representatives, Supervisors, Delivery Drivers and Managers.

Potential Environmental Impacts

1. Operations

- Contamination from discharge of effluent from washing of poultry houses
- Emissions from the use of generators
- Dust from poultry houses
- Pollution of surface water and groundwater resources due to spillage of fuel from equipment, vehicles, etc.
- Emissions of biogases from manure

Proposed mitigation measures

- Keep drains clear to facilitate an unobstructed drainage pathway to the larger internal drains running north to south.
- Compliance with site rules on storage and handling of fuel for the generator, vehicles, etc.
- Regular cleaning of the extractor fans to ensure proper airflow in the automated houses
- Planting robust plants and Ficus trees to trap the dust on the western side of the poultry houses.
- Enhance capabilities of natural drying of manure and distribution of same to crop farmers

Non-technical explanation of project

The main aim of the project is to further develop the egg industry making Guyana self-sufficient in egg production using modern technology.

This expansion will contribute positively to the agriculture development in Garden of Eden as well as provide employment.

The main focus will be to operate in a safe environment with responsibility for safety of the employees and livestock and to pursue new ways to further improve the operations by implementing best practices relevant to the poultry sector.

