

Agriculture
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PROJECT LAYER BIRDS

Description of the Site

The location of the land is Section 2 Yarrowcabra Soesdyke-Linden Highway. The land consists of sandy terrain with surrounding forest area and a stream dividing the land. The proposed layout of the land will consist of two layer pens (30ftx100ft each) ten feet off the boundaries of the western side of the land. There will be a security house, storage bond and workmen quarters central of the land. Buildings will be approximately 120ft away from the stream. All water supplies will be gathered from the existing stream on the land. Presently, the project area is under preparation (clearing and leveling) to accommodate the foundation for structures mentioned above. For intake, such as water from the stream to the project area, a water pump will be in use to send water to tanks within the storage bonds. Discharge or waste from the project area will mainly consist of chicken droppings which will be used as manure to fertilize the cash crop that will also be grown.



Project Design

Project Layer Birds will begin from construction of the above structures to house the operation to the distribution of the finished product of chicken eggs. After the land is prepared for building of the structures, the construction will begin. Workforce will be employed to build the required structures such as the security house, storage bond, pens and workmen quarters. After that foundation has been established, the production process will begin. The first stage of production will consist of acquiring the birds, which will be done by means of purchasing from Edun's Poultry Farms and Hatchery. Supplies for the sustainability of the birds such as feed will also be purchased from Edun's Poultry Farms and Hatchery. For the second stage, two experienced poultry farmers will be employed to ensure the proper rearing of the birds which would entail the raising, breeding and egg laying process. This process will also be monitored by a member of the Guyana Livestock Development Authority. After the product has been realized (eggs), the third stage will include packaging and marketing of the eggs. The product will be packed in regular sized crates (30 per crate) and transported to the identified markets. As per stock replenishment, this stage would entail the sanitization of the pens before the process can repeat again from beginning. As for the supply of water will be harvested from stream as per way mentioned above and electricity to power the structures will be generated through the introduction of solar panels. Waste derived from the production process, will be decomposed and made into manure for fertilizer and single use plastics derived from on-site employees will be placed into trash bags and transported monthly to be properly disposed of onto dumpsites.

Project Size

A capital of Ten Million Guyanese Dollars will be invested into the project. A number of eight construction workers will be contracted to complete the erection of the structures required for the project. A projected two million Guyanese Dollars will be spent on this stage of the project. Four workers will be employed on a permanent basis. These four permanent employees will maintain and oversee the remaining stages of the project with guidance from a member of the Guyana Livestock Development Authority. A quantity of 6000 layer birds will be purchased as chicks, each bird produces approximately 279 eggs annually, a mortality rate of 10% will be in consideration, it takes approximately six months of rearing for the birds to produce roughly one egg per day, it is projected that the 5400 birds will produce 5000 eggs per day which will equate to 166 crates of eggs daily. Normally, the lifespan of the egg laying process of a layer bird is 18 months so the stock will replenish every 18 months.

Project Summary

The project will involve construction of pens, storage facility and housing for employees and the production part is basically rearing of birds for the production of eggs. The correct authorities will be administered to oversee this project and experienced staff for the proper handling and safety of the birds. Products will be sold to local markets. The main priority of this project will be the safety of the employees, animals and the environment.

Environmental Impacts

During the development of the idea of the project, much emphasis has been placed in preserving the environment and using environmental friendly techniques. As the effects on land or soil, there will be no negative effects more so positive as nutrients will be provided to the soil as a result of the waste from the project. There will be no onsite burning of anything to pollute the air and water will be stored and used only when necessary so as to eliminate wasting the water or any pollution of it. The surrounding area is mainly agricultural land so there will also be no pollution from neighboring lands.