

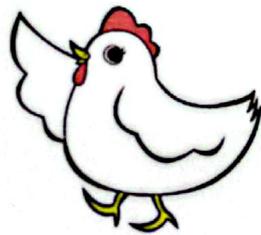


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# VIDYANAND DEOKINANDAN POULTRY FARMING PROJECT SUMMARY

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BROILER FARMING



NOVEMBER 28, 2024

PREPARED BY VIDYANAD DEOKINANDAN (FARMER)

**Name of Developer:** Vidyanand Deokinandan  
**Registered Name of Business:** V. Deokinandan's Investment  
**Address:** lot 10 Noitgedacht Canal No.1 Polder, West Bank Demerara  
**Contact Details:** +592 613-7411, +592 680-6034  
**Email:** landsurveyorvd@yahoo.com  
**Project Type:** Poultry Farm/ Broiler Rearing  
**Project Duration:** Approximately 20 years

### Project Location and Description:

The poultry farm is located on and occupies part of lot 'A' being a portion of lot 10 Noitgedacht Canal No. 1 West Bank Demerara. The said lot 10 consists of 7.056 acres and is shown on G.I.&S.C. Plan No. 41045 by M.S. Azam Sworn Land surveyor dated 09-05-2007, having a width of 49.42 feet and length of 6220.43 feet (15m x 1896m).

Approximately 82 meters south of my residence situate my poultry farm. The farm occupies an area of 2295 square meters; 153 meters in length by 15 meters in width. It consists of two existing Chicken pens measuring 7m by 54.8m and 7m by 61m respectively, a storage bond, two water trestles, and a roadway.

My poultry farm is immediately bounded as follows:

- To the east by lot 11 consisting mix farming cultivation.
- To the West by lot 10 consisting of abandon farmland
- To the South by citrus farm
- To the North by mixed fruit trees



Image showing pen locations and occupation/ land use of the surrounding areas.

### Project Designed

The poultry farm consists of 2 already erected chicken pens. The pens were resected approximately 0.5meter off the surrounding ground elevation. The floor of each pen was cast with concrete after first compacted with sand. The pen frame was constructed with wooden material. The roofs are covered with aluminum zinc sheets and adopt a police cap design to allow ventilation. The pens follow an open-sided design secured by chain-link mesh to protect birds from invasive animals. At one end of each pen lies a concrete water trestle. The access road is made up of sand and building waste.

### Source of utilities

**Water** is supplied and taken from G.W.I. main pipe via ¾ inch pipelines to the poultry farm, where it is stored in six (6) 450-gallon water tanks (tuff tanks) until it is consumed by chicken or used for cleaning.

**All electrical power** required by the poultry farm is supplied by GPL. The developer followed all guidelines on the size of duplex conductors (wires) and galvanized poles set by GPL to carry electricity from the main line to the pens.

### Waste management

**Solid waste** that is generated from employees such as drink bottles, food boxes, and cans, along with damaged or old feed bags and feedbag tags and strings will be disposed of into garbage bins that are scheduled for weekly removal by a service provider (Puran Brothers Inc.).

**Organic waste:** The chickens are grown on a deep floor method of wood shavings. After the birds are removed from the pens, all the litter mixed with chicken excretion will be spaded into 20kg bags (feed bags are recycled/reused) and transported to farms around the area to be used as manure (fertilizer).

### Project Size

A capital of four million dollars is needed to sustain one batch of birds for 6 weeks and requires the employment of two permanent workers.

**One batch/pen** will facilitate 3500 birds purchased from Bounty Farm at \$225 per bird or \$787,500.

**The Chicken** will consume approximately 350 bags of feed during the six weeks at \$6000 per bag or \$2,100,000 total.

**Two workers** at \$5000 daily for 7 weeks total \$490,000. Six weeks to grow and sell chicken followed by a week to clean and sanitize the pen.

**The remaining money** is spent on utility bills, purchasing wood shavings, medication, and vet visits.

## Production

At the end of 6 weeks, approximately 3200 birds will survive, weighing approximately 4.75 lbs to 5.5 lbs each. Therefore, one batch will produce approximately 15,200 lbs. to 17,600 lbs. of live chicken for the local markets.

### Stages for One Chicken Cycle are as follows:

1. One-day-old chicks are bought from a local Hatchery (Bounty Farm), already vaccinated, and transported to the farm via a canter truck.
2. The birds are placed into an air-controlled compartment of the pens that allows for successful brooding.
3. During the brooding phase the birds are fed chicken starter, which is sourced from Bounty Farm Ltd and supplied with a heat source.
4. Brooding takes approximately 15 days before the birds are allowed into larger areas of the pens. They are given more floor space as they grow.
5. At 6 weeks the birds are taken out of the pen to be sold live.
6. After the birds are removed from the pens, all the litter and chicken excretion are removed. The pen is then swept and disinfected via spray cans for 2 weeks.

### Potential Environmental Impacts and Mitigation Measures

Potential Environmental Impacts	Mitigation Measures
<b>Odour Nuisance:</b> from the facility could be emitted from the improper management of bedding, and the improper cleaning of the facility. If solid waste generated onsite is not adequately stored in a dry place and disposed of promptly.	To mitigate this impact, the facility will add additional shaving when needed. To ensure that rain does not flash into the pen adequate zinc projections were used. Additionally, waste is bagged and removed promptly and kept dry.
<b>Water Pollution:</b> The potential exists for the pollution of surface water from the disposal of solid waste directly into surrounding waterways.	To mitigate this impact, bags containing chicken waste will be kept dry and removed from the site immediately after. Pens will be swept clean before any washing is done. Water will flow into a secondary drain before entering the main waterway.
<b>Dust Nuisances:</b> There is potential for the emanation of dust and particles during the cleaning process of pens and by the daily activity of the chicken's movement.	Pens were constructed downwind from residential property. Trees are planted around the pen to brake wind speed and catch any fine dust particles.