

# K.K.D BOWAN IMPORT/EXPORT – PROJECT SUMMARY

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## **Site Description**

The Linden-Soesdyke Highway and does not have many residents nearby. It is not being used presently for any activity, and remains covered with vegetation. The project seeks to harvest rain water, which will be pumped into reservoir, overhead tanks will then be used to distribute water to the facility. Waste water from staff will be directed to a septic tank and that from the species onsite will be directed to a soak-away system for treatment before release into the environment. The facility will be furnished with a drainage system which will also lead into the septic tank.

## **The Project Design**

The project design will include three phases; these are;

1. Pre-construction phase
2. Construction phase
3. Operation phase

### **The Pre-Construction Phase**

During this phase the land will prepared whereby vegetation will be cleared, and the area concerned directly with the establishment of the facility will be prepared for construction. In this sense, the top soil will be removed to allow construction of the foundation for the structures to be put in place. Vegetation removed during this phase will be reused in the facility, as firewood where necessary. The other tree materials will be piled and allowed rot. No burning will be done.

### **The Construction Phase**

The project intends to facilitate the construction of the following structures;

- Three holding stations (one for Reptiles, one for Mammals, and one for Birds)
- One kitchen and storage facility
- One quarantine station
- One sick bay station

For holding stations, the dimensions proposed are; for the Reptiles' station the structure will be 15ft x 25ft; the Mammals' station will be 25ft x 25ft and for the Bird's station, this is proposed to be 30ft x 25ft.

With regards to the other structures to be constructed, the kitchen and storage proposes to be a structure of dimensions 15ft x 15ft; the quarantine station proposes to be a 10ft x 10ft structure and the sick bay will be a structure of also 10ft x 10ft.

All the structures will be constructed in such a way where, the foundation will be casted using stones and sand, finishing with a smooth cement base. Walls will then be constructed using concrete blocks at the bottom section, and at the upper section mesh will be used to provide good circulation of air and provide light during the day time. The roof of each structure will be the last to be completed, using zinc sheets. Structures will be equipped with guttering also, to facilitate the harvesting of water. There will be installation of drainage, with each station leading directly into a soak away system, which eventually will lead to a septic system.

Power for the operation of the facility will be GPL and for back up there will be the use of a generator. Fuel will not be stored on site, but will be purchased as needed.

There will be an incinerator also constructed as part of the project, which will be the main mechanism of waste management given that there are no waste disposal services in the area, and there will be no practice of open air burning of any kind on site. For vegetable waste and other biodegradable waste from the kitchen, this will be used in compost and will further be used as fertilizer for the crops that will be grown on site. The crops that will be grown on site, is proposed to be used to facilitate the diet of the animals housed in the facility.

For waste generated during the construction waste such as wood, this will be reused as firewood in the incinerator when necessary.

## **Operation Phase**

Upon completion of all construction the facility will flow into the operation phase where the station will then be in full use. The project seeks to center around the holding of three types of fauna; mammals, birds and reptiles. These animals will be kept at the stations for short periods of time

before they are exported. There are no intentions at the time for any expansion, or modification to include other types of animals.

### **The project size**

The project intends to employ six (6) persons for the pre-construction phase, eight (8) persons for the construction phase and six (6) persons for the operation phase. The total investment lies at five million Guyana dollars (GYD\$5), and the proprietor projects a two-point-five million annual turnover from the project. For each season during the year, the animals kept at the facility will coincide with the demand on the market, and the regulations stipulated by the Guyana Wildlife Conservation and Management Commission.

The implementation of this project, taking all phases into consideration is projected to last a six weeks' period. The pre-construction and preparation phase will last for one week, the construction phase will last three weeks and the pre-operation phase which projects to include stocking of the facility, ensuring everything is in order with utilities, etc. will take two weeks.

### **Mitigation Plan**

Potential Impacts of the Project	Proposed Mitigation Plan
<b>Waste Management</b>	To ensure the proper management of waste at all time, there will be a schedule use of the incinerator established which will be adhered to by the employees.
<b>Water pollution – ground water</b>	Waste from the facility has the potential to leach into the soil which can potentially impact the ground water. To ensure that this does not occur, the project plans to establish stringent drainage system, which will be routinely monitored for leaks, to avoid discharge of waste water in the environment.

<b>Odour nuisance</b>	<p>From the sick bay, there will be cases where some animals may not make it. In these instances, the potential for odour occurs. To avoid this occurrence, all dead animals will be put in the incinerator as soon as it is discovered.</p>
<b>Noise nuisance</b>	<p>From the use of generator when necessary, there is potential for this to cause noise nuisance. To avoid this impact to the environment, the generator will be equipped with a silencer, and appropriate enclosure to minimize emission of noise into the environment.</p>
<b>Disturbance to flora and faun</b>	<p>With the removal of vegetation during the preconstruction phase, it is likely that the naturally existing biodiversity will be disrupted. In this case, there will be removal of vegetation ONLY where necessary, to minimize the overall impact on surround biodiversity in the area.</p>

## Pictures of Proposed Facility

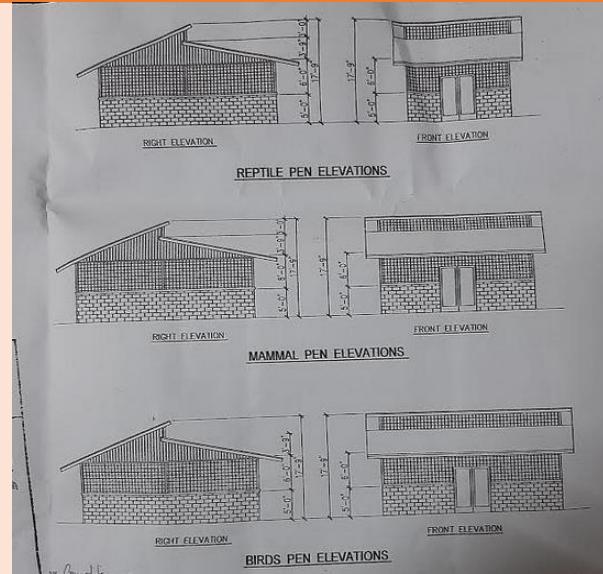


Image 1. Showing the Proposed Structure for the Birds

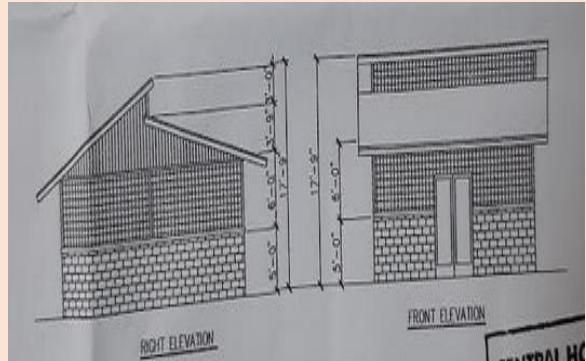


Image 2. Showing the Proposed structure for the Quarantine station.

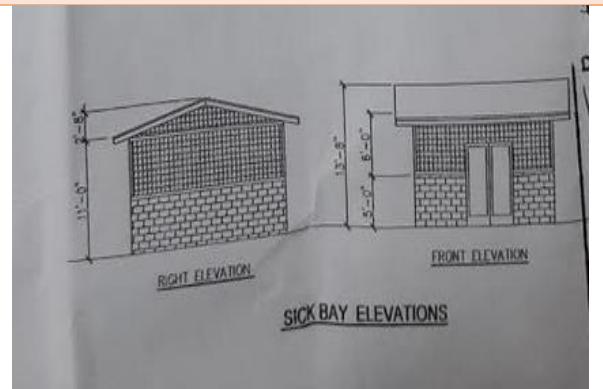


Image 3. Showing the Proposed structure for the Sick Bay

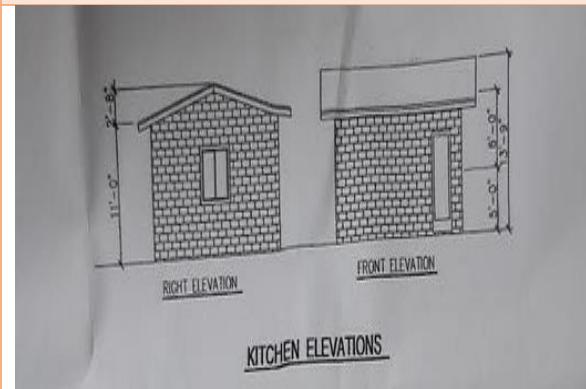


Image 4. Showing the Proposed Kitchen and Storage Area