

# Winston Kissoon Construction, sawmill and Lumberyard- Project Summary

**Name of Developer:** Winston Kissoon

**Developers' Address:** Lot Lot 1530 Herstelling, East Bank Demerara.

**Contact details:** 6419307

**Business Name:** Winston Kissoon Construction, sawmill and Lumberyard

**Project Type:** Sawmill

**Projected Capital Investment:** Guy\$15M

**Annual Turnover:** Projected Guy\$4 M

**Project Duration:** Approx. 20 years based on market demands and trends

**Proposed Project Location:** Aranaputa Valley, North Rupununi, Region no. 9

**Prepared by:** Winston Kissoon (Owner)

**Date:** 2024-11-06

## **Project Location and Description**

The proposed sawmill will be located in the Aranaputa Valley, North Rupununi, Region 9, Guyana. The site spans 4 acres of cleared savannah land, characterized by slightly flat topography and predominantly white, freely drained sandy soil. The location is surrounded by diverse landscapes:

- **West:** Savannah lands and mountains.
- **East:** Vacant lands.
- **North:** The Lethem-to-Linden Road.
- **South:** A small mountain adjacent to the project site.

Accessibility to the site is excellent via the Linden-to-Lethem Highway, a laterite road designed for two-way traffic and resilient to varying weather conditions. From the highway, a sandy trail provides direct access to the project site.

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## **Pre-Construction Phase**

### **1. Land Preparation:**

- Approximately 1 acre of land will be cleared of shrubs using chainsaws and brush cutters.
- Two workers will be engaged for this task, and the cleared vegetation will be set aside for natural decomposition in a designated area.

### **2. Material Transport:**

- Construction materials, including lumber, sand, stones, steel rods, and cement, will be transported to the site using a hired canter.
  - Materials will be delivered in exact quantities to prevent stockpiling due to the lack of onsite security.
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## **Construction Phase**

### **• Workforce and Safety:**

- A team of 3–4 workers will be engaged for construction. Workers will supply their own personal protective equipment (PPE).

- A First Aid Kit will be available onsite for minor injuries, while any major injuries will be referred to the Hauraruni Health Centre.

- **Timeline:**

- Construction is expected to last approximately one month.

- **Planned Infrastructure:**

- A **two-story wooden building** (23 ft x 30 ft x 16 ft):
  - Ground floor: Office space.
  - Upper floor: Dwelling space.
- A **mill shed** (25 ft x 40 ft x 22 ft).
- A **sanitary facility** with two flush toilets and one bathroom connected to a septic tank.

- **Solid Waste Management:**

- Minimal waste (e.g., cement bags, wood scraps, food packaging) will be collected in garbage receptacles and disposed of in a designated solid waste pit.

- **Noise and Vibration Control:**

- Noise will be minimal due to the use of hand-held electrical tools. Work will be limited to daylight hours (8:00 a.m.–5:00 p.m., Monday to Saturday). No heavy-duty machinery, such as loaders or skidders, will be used.

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## Operational Phase

- **Production Capacity:**

- The sawmill is expected to process 15,000 to 20,000 board meters (bm) of logs monthly.

- **Equipment and Processes:**

- Equipment includes one mill, two electrical hand planers, one planer, one 10,000-watt generator, one chainsaw, and one tractor.
- Timber species to be processed include Tatabu, Torinario, Shibadan, Farm Board (Baroamalli), Antwood, Karatie, Silverballi, Dukalie, Purpleheart, Greenheart, and others.

- Logs will be sourced from regional logging concessionaires, transported by log trucks, and temporarily stored in a log pond with a capacity of 200–300 m<sup>3</sup>.

- **Utilities:**

- **Water:** Sourced from the community well; an onsite well will be installed in the future.
- **Electricity:** Supplied by a <sup>65 kw</sup>~~10,000~~-watt generator and supplemented by solar lighting for nighttime <sup>3000</sup> operations.
- **Fuel Storage:** Approximately two 5-gallon containers, securely stored onsite.
- **Communication:** Services provided by GTT and Digicel.

- **Workforce and Schedule:**

- Five employees will work Monday to Friday (8:00 a.m.–5:00 p.m.) and Saturday (8:00 a.m.–12:00 p.m.).
- Log and lumber loading/unloading will occur during working hours.

- **Safety Measures:**

- PPE, including gloves, visibility vests, helmets, goggles, and steel-tip boots, will be provided.
- Fire extinguishers, sand buckets, and “No Smoking” signs will be strategically placed.

## Environmental Effects

The following environmental effects may be generated from the operation of the sawmill:

<b>Environmental Effects</b>	<b>Mitigation Measures</b>
<p><b>Noise Nuisance</b></p> <p>Workers may find it annoying when machinery, generators, and other equipment are running. The machinery and equipment shall be repaired and maintained in accordance with the manufacturer's specifications during business hours, and the generators will be kept in a generator room with exhaust stacks.</p>	<p>Because the machinery is modern, the noise levels it produces won't be as annoying as they would be with older models. The generators will be maintained in a generator room and feature exhaust stacks. During regular business hours, the machinery and equipment will be utilised. According to the manufacturer's guidelines, these will be maintained and kept updated. The blades will be inspected by our experts, and then sharp blades will be installed. The required PPE, which includes hearing protection, will be provided to the workforce.</p>
<p><b>Fire</b></p> <p>It's possible that defective electrical equipment, such as weak wiring or overload sockets, arson, or carelessness on the part of workers who could be smoking on the working site were the causes of the fire.</p>	<p>Fire extinguishers and sand buckets will be placed at strategic points within the sawmill so they may be used in the case of an emergency fire. The staff members will receive training on how to use fire extinguishers. The electrical points and circuits will undergo routine checks.</p>
<p><b>Vibration</b></p> <p>Heavy equipment and mechanical use can cause vibrations. for example, unloading timber from trucks.</p>	<p>The equipment will only be used when it is required to "feed" wood into the mills, and it will be mounted on a concrete platform to lessen vibrations. During regular business hours, the machinery and equipment will be utilized and maintained in accordance with the manufacturer's instructions.</p>
<p><b>Particulate Matter (dust)</b></p> <p>Dust emission from equipment like mills and planers is expected.</p>	<p>A dust containment container will be used to collect dust from the planers' extractor devices. The mill floor will be cleaned of the sawdust produced by the mills and planer, and personnel will be given the appropriate PPE to protect themselves from dust. The</p>

	mill floor will occasionally be wet to help reduce dust.
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## **Waste Generation and Management**

### **Solid Waste Management**

- **Domestic Waste:**

- Domestic waste, such as food packaging and drink cans, will be collected in a covered rubbish container and then transferred to 45-gallon barrels.
- The waste will be buried in a designated pit to ensure proper disposal.

- **Wood Waste:**

- **Wood Ends, Strips, and Slabs:** These will be made available to community members for use as firewood.
- **Shavings and Sawdust:** Farmers and other interested parties can collect these for agricultural or other uses.
- Planers will be equipped with extractor devices connected to a dust collection container. The bin size will be determined by the volume of shavings and sawdust generated.

### **Effluent Management**

- **Greywater and Sewage:**

- Wastewater generated by employees and customers will be directed to a septic tank designed for anaerobic treatment.
- The septic tank will be regularly maintained and emptied by **Puran Waste Disposal Service** when full.

### **Hazardous Waste Management**

- **Waste Oil:**

- Maintenance of the tractor, chainsaws, and generator will produce an estimated 10–15 gallons of waste oil.
- To prevent spillage, waste oil will be securely stored in tightly sealed 5-gallon plastic pails within the mechanic workshop.
- Used oil will be recycled for use in chainsaws to minimize waste.