

Sase Narine Project Summary



Environmental Protection Agency  
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CENTRAL REGISTRY

**Name of Developer:** Sase Narine

**Developers' Address:** 10 Hubu East Bank Essequibo

**Contact details:** 592 600 9376

**Project Type:** Sawmill

**Projected Capital Investment:** Guy\$20M

**Annual Turnover:** Projected Guy\$10M

**Project Location:** Plot 16 Industrial, Wismar Linden

### **Project Location and Description**

Mr. Narine is dedicated to providing customers (local and international) with the finest quality finished materials. The business is primarily wholesale with some amount retail. The company intends to purchase lumber from small- and large-scale loggers from across the country but more extensively from the Region No. 10.

This existing Sawmill, can be access via the road approximately eight (8) metres east of the compound entrance; which runs north, south through the industrial area, this access road branches off from the Linden, Mabura road which runs east to west.

**North** – Sawmill (100 m)

**East** – Main Road (8 m)

**South** – Sawmill (immediate)

**West** – Vacant Land (immediate)

The surrounding of my operation is mixed with other sawmills which is located a short distance away.



Figure 1: Showing my operation and surrounding land uses

## **Operational phase for the sawmill**

This existing operation is able to process 120,000 bm of logs per month. The sawmill has an existing mill shed of (100x35) that is placed on concrete foundation which also covers the following equipment, one (1) four head planer, one (1) flat 16inh planer, one (1) 15 goodmizer and one cook mill 36 inch. Dressed and rough lumbers are produced and these are stored on dunnage because within three days lumbers are transported via trucks to various lumber yard in Georgetown. Some of the timber species that are process at my sawmill are as follows, Tatabu, Torinario, Farm Board or Baroamalli, Antwood, Karatie, Silverballi, Dukalie, Purpleheart, Greenheart etc. The logs are sourced from logging concessionaires from Ituni, Kwakwani, Mabura, etc. and is transported to the site by hired log trucks. The logs will be offloaded from the log truck by the log loader and discharged in the log pond. The logs are temporarily stored in the log pond, which has the capacity to hold approximately 300-420 m<sup>3</sup> of logs. From the log pond, the log loader will transport the logs to the mill for processing to remove the bark and saw it into the boards. From the mill, the boards are further processed by the edger. Both dressed and rough lumber are produced.

Utilities such as water and electricity are provided by Guyana Water Incorporated (GWI) and the Electric utility company in Linden respectively while the telephone service is provided by One Communication Network. Solar lights will be utilized to provide lights for the dwelling house, office and mill shed. No generator will be used.

Eight (8) people are employed to work daily at the sawmill. Working hours are from 8:00 hr to 17:00 hr, Monday to Saturday. All loading and offloading of logs and lumber will occur during the working hours. Personal Protective Equipment (PPE) provided to the workers is gloves, visibility vests, helmets, goggles and steel tip boots. A First Aid Kit will be placed in the office to treat any minor cut(s) or bruise(s) and a vehicle will be standby to transport any injured person to the Linden Hospital Complex.

Fire extinguishers and sand buckets are placed at strategic points of throughout my operation and “No Smoking” sign are placed contiguous area.

## Environmental Effects

The following environmental effects may be generated from the operation of the Sawmill, Charcoal production and Furniture making facility:

### **Noise Nuisance**

The source of noise will be from the operation of the equipment, and machinery. The equipment and machinery will be worked during working hours and serviced according to manufacturer's specifications.

### **Fire**

The source of the fire may be as results of defective electrical equipment such as loose wiring, overload sockets, etc. or arson or the carelessness of workers who may smoke onsite.

### **Vibration**

Vibrations generated from the use of the equipment and heavy-duty machinery.

### **Particulate Matter (dust)**

It is expected that dust will be emitted from the equipment such as the planer, mill and bandsaw.

## Mitigation Measures

### **Noise Nuisance**

Our company plans to enclosed all sound making devices at the facility.e.g. planers with materials of good noise insulation properties such as hollow concrete blocks, insulation boards, solid clay bricks, **however there are some residents living a short distance away from my facility but I'm willing to set the standards of my operation to the required level of the Environmental Protection Agency.** In addition, my equipment is equipped with silencers and mufflers to reduce the noise level to also add to that our equipment purchased is the new models so the noise levels generated will not be significant as compared to the old models. The equipment and machinery will be worked during working hours. These will be serviced and maintained according to manufacturer's specifications. Blades will be checked and replaced with sharp ones. Workers will be provided with appropriate Personal Protective Equipment (PPE).

### **Fire**

Fire extinguishers and sand buckets are placed at strategic points within the sawmill so in case there is a fire emergency then the firefighting equipment can be used. Staffs are trained in the use of the fire extinguishers. The electrical circuits and points are checked regularly.

### **Vibration**

All equipment is placed on concrete foundation to dampen the vibrations and the loader usually work only when the need arises that is to 'feed' the mill with logs. The equipment and machinery are worked during working hours and serviced according to manufacturer's specifications.

### **Particulate Matter (dust) and mitigation**

Wood shaving/ Sawdust generated by the mills are removed from the mill floor daily a worker and we usually try to not let it exceeds 10cm in height and sawdust from the planer are trap in a 25 x 20 dust containment bin, when this bin full farmers/interested persons along the linden highway would usually collect for various personal reasons and the remainder are used to land fill a gully which is located at the back of my facility. The employees are given appropriate PPE to protect themselves from dust. The mill floor is wet from time to time to keep down the dust particles.

### **Waste Generation**

#### **Solid Waste Management**

Domestic waste such as food boxes, beverage containers, etc. will be collected in a covered garbage receptacle and will be emptied once weekly by the Cevons Waste Disposal Services.

Wood waste such as sawdust will be collected/bagged from the mill floor in a timely manner we will try our best to not allow our sawdust to accumulate to more than 10cm, shavings, wood ends, slabs/barks and wood chips etc. will be used as landfill, other revetment works around the site and interested persons will collect the remainder. Extractor systems will be installed on planers and connected to the dust containment bin. The bins dimensions will be based on quantity of shaving and sawdust generated from the planers.

#### **Effluent**

Grey and sewage water produced by workers and customers; as such, the effluent will be discharged into the septic tank to be treated anaerobically. The septic tank will be accessible for cleaning and will be emptied when fill by Cevons Waste Disposal Service.

#### **Hazardous Waste**

Waste oil of approximately 5-8 gallons will be generated from the servicing of the loader. The waste oil will be stored in tightly covered 5-gallon plastic pails to avoid spillage and they are kept in a designated area for storage also some waste oils are reused in the chainsaws on site.

**Prepared by:** Sase Narine

