DANNY SAWMILL

SAWMILL OPERATION

Mahase Persaud

Name of Developer: Mahase Persaud

Developer's Address: Lot 68, Diamond, Block 1 & 2, East Bank Demerara

Contact details: 690-3417/643-4376

Business Name: Danny Sawmill

Project Type: Sawmill

Projected Capital Investment: Approx. Guy$8.6M

Annual Turnover: Projected Guy$4.3M

Project Duration: Approx. 2 years based on the rental agreement and may renewed based on the renewal of the Rental Agreement

Project Site: Plot 'MNHS' being portion of Lot 172, part of State Land in the Yarrowkabra, Agricultural Layout Eastern Side of Soesdyke Linden Highway

Project Location and Description

The total land area of the site is approximately 0.5 acres and it is located at Plot 'MNHS' being portion of Lot 172, part of State Land in the Yarrowkabra, Agricultural Layout Eastern Side of Soesdyke Linden Highway and can be accessed from the Soesdyke-Linden Highway. The lease for the site is going through the transfer process from Mr. Rajendra Ruben to Mr. Deoraj Singh. The Transferred Lease will be submitted to the Agency once the transfer process is completed. The Lease is for industrial purposes. The sawmill site is surrounded by similar sawmill activities with Salim Rahaman and Ganshyam Mahase's Sawmills located north, vacant lands existed east and south and the Soesdyke/Linden Highway is west of the site as shown in the Google Map in Figure 1 below).

Figure 1: Showing proposed project location and surrounding land uses

The equipment onsite is one (1) mill, one (1) planer, one (1) edger, two (2) chainsaws, one (1) loader, one (1) log truck and one (1) tractor. The equipment is powered by a diesel generator of 75 kVA.

Infrastructure onsite includes the mill shed with dimensions of 52 ft x 30 ft x 16-17 ft at the peak, and the generator room is 10 ft x 12 ft x 9 ft. Approximately 120-130 m^3 of logs per month is processed at the sawmill but this dependent on orders as well as supplying lumberyards around the country. Dressed and rough lumber will be produced and these will be stored on dunnage. Timber species such as Tatabu, Torinario, Farm Board or Baroamalli, Antwood, Karatie, Silverballi, Dukalie, Purpleheart, Greenheart, and other lumber species will be processed onsite. The logs will be sourced from logging concessionaires in Ituni, Kwakawni, Unamco Road, Mabura, etc. and will be transported to the site by the log truck. The logs will be offloaded from the 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 120-130 m^3 logs. From the log pond, the tractor will transport the logs to the mills for processing to remove the bark and saw it into the boards. From the mill, the boards are further processed by the planer and edger.

Water will be provided by GWI and electricity will be provided by the generator. The generator is housed in a generator room of 10 ft x 12 ft x 9 ft in dimensions. The base of the generator room is concreted.

Six (6) people is employed to work daily at the sawmill. Working hours is 8:00 hrs. to 17:00 hrs., 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 is placed at a strategic point under the mill shed. The kit will be used to treat any minor cut(s) or bruise(s) and a vehicle is standby to transport any injured person to the Yarrowkabra Health Post.

Fire extinguishers and sand buckets are placed at strategic points of the operation and a "No Smoking" sign is placed in a contiguous area.

Both diesel and gas are stored onsite. Approximately 1-45 drum of gas and 2-45 drum of diesels is stored onsite.

Tractor, log truck and log loader are serviced at Lot 171, Soesdyke/Linden Highway and impromptu repairs are serviced onsite if the need arises.

Environmental Effects

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

Noise Nuisance

The source of noise is from the operation of the sawmill, generator, tractor and log loader but may not be significant.

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. The log loader is used to offload each log from the log truck and during the offloading process, vibrations may occur.

Particulate Matter (dust)

Dust is emitted from the equipment such as the planer, edger, and mill.

Mitigation Measures

Noise Nuisance

The equipment purchased is the new models so the noise levels generated is not significant as compared to the old models. The generator is housed in a generator room and equipped with exhaust stack. The equipment and machinery are worked during working hours. They are service and maintain according to manufacturer's specifications. Blades will be checked and replaced with sharp ones. Workers will be provided with appropriate PPE including hearing protection.

Fire

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

Vibration

The equipment is placed on wooden planks to dampen the vibrations and all caution is taken when offloading the logs from the log truck by the tractor. The vibration will not be constant since offloading will be completed approximately 30 minutes. The equipment and machinery will be worked during working hours and serviced according to manufacturer's specifications.

Particulate Matter (dust)

The planer is equipped with extractor system to channel the dust into the dust containment bin. Sawdust generated by the mills and edger will be removed from the floor by a worker. The employees will be given appropriate PPE to protect them from dust. The mill floor will be 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 disposed of in a solid waste pit.

Wood waste such as ends, strips and slabs will be used for revetment and shaving and sawdust will be collected by person in the area. Extractor systems will be installed on the planers and connected to the dust containment bin. The bin's dimensions will be based on the quantity of shaving and sawdust generated from the planers.

Effluent

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

Hazardous Waste

The tractor, loader and log truck are serviced monthly and the chainsaw every three week while the generator will be serviced once every two weeks but this is dependent on the usage. Waste oil of approximately 7 gallons will be generated from the servicing of the equipment. The waste oil will be stored in tightly covered 5-gallon plastic pails to avoid spillage. Some of the waste oil will be reused on the chainsaw while the remainder will be given to other chainsaw users.

Prepared by: .....

Date: December 28, 2023