Glen Seubarran

Project Summary

Name of Developer: Glen Seubarran

Developers' Address: Lot 57 Number 2 Village East Canjie Berbice

Contact details: 617-5579/623-6551

Project Type: Sawmill

Projected Capital Investment: Guy$40M

Project Duration: Life Time

Project Location: Tract DH, Amelias Ward, Right Bank Demerara River.

Project Location and Description

Mr. Glen Seubarran plans to supply quality timber to local citizens. The proposed sawmill aims to produce sawn timber at affordable prices due to our energy efficient machinery and methods. Research as shown that Guyana is going in the direction for an economic boom within the construction phase, and as there will be a great demand for wood. This sawmill facility will be located at Tract DH, Amelias Ward, Right Bank Demerara River.

Pre-construction phase

Three (3) persons will be needed for this phase. The proposed area will be cleared of vegetation with a loader and excavator and the vegetation will be kept in a designated area to be decomposed. Construction materials such as lumber of various dimensions, sand, stones, steel rods, cement, etc. will be mobilized to the site to be used in the construction phase.

Construction phase

Eight (8) persons will be needed for this phase. The infrastructures such as the office, dwelling house, washroom with toilet and septic tank and mill shed and mechanic workshop will be constructed with the dimensions stipulated on the site plan, the equipment with the necessary electrical support has to be installed. The expected duration of this phase is about two months. For the mill shed, the posts will be placed on concrete bases and a two-story wooden building will be constructed for the office (bottom flat) and the dwelling place (upper flat). The base of the mechanic workshop will be concreted so as to avoid contamination of the ground water.

Solid waste such as empty cement bags, pieces of wood, food boxes, beverage bottles and tins, etc. will be expected to be generated during the construction phase and the waste will be collected in a garbage receptacle (plastic drum) and emptied by a private Waste Disposal Service and the frequency of emptying the receptacle would depend on how fast it is filled. Noise emission is expected to be minimal since most of the tools that would be utilized will be hand held electrical tools and works will be carried out during the day from 8:00 hrs to 17:00 hrs., Monday to Saturday. Vibration will be emitted since heavy-duty machinery such as a loader and excavator will be used in this process. Approximately 10 persons will be hired for this phase. They will be responsible to provide their own PPE. A First Aid Kit will be onsite in case of minor injury but if there is a major injury then that person (s) will be transported to the nearest health care facility in Amelia's Ward.

Operational phase

Twelve (12) will be expected to employed for this phase. It is expected that approximately 40000 m^3 of logs per month will be processed at the sawmill. The sawmill will start off with one (1) mill and one (1) edger (both engine operated), one (1) chainsaw (1) 250 kva generator and one (1) log loader. Dressed and rough lumber will be produced and these will be stored on the lumber shelves/racks as well as 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 from Ituni, Kwakwani, Mabura, etc. and will be 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 200-220 m^3 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 will be produced.

Utilities such as water and electricity will be provided by Guyana Water Incorporated (GWI) and the linden power company also a 250 kva generator will be on standby in the event of power outage, respectively while the telephone service is provided by the Guyana Telephone and Telegraph Company (GTT). Solar lights will be utilized to provide lights for the dwelling house, office and mill shed.

Working hours will be 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.

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

Environmental Effects

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

Noise Nuisance

The source of noise will be from the operation of the equipment, and machinery and may disturb the residents living nearby. 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 edger, and mill.

Mitigation Measures

Noise Nuisance

All our sound making devices.e.g. generators and planers will be enclosed in structures constructed with materials of good noise insulation properties such as hollow concrete blocks, insulation boards, solid clay bricks and will be equipped with silencers or mufflers to reduce the noise level to 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 will be 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 will be placed on concrete foundation to dampen the vibrations and loader will be working only when the need arises that is to 'feed' the mill with logs. The equipment and machinery will be worked during working hours and serviced according to manufacturer's specifications.

Particulate Matter (dust) and mitigation measures

Sawdust generated by the mills and edger will be removed from the mill floor by a worker and a dust containment bin will also be constructed to trap dust particles from the planer.
The employees will be given appropriate PPE to protect themselves 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 will be emptied once weekly by a private 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 15cm (6 inches), shavings wood ends, slabs/barks and wood chips etc. will be used as landfill and other revetment works around the site, wood waste will also be given to person in the charcoal business, poultry farmers and other interested in the community of Linden. 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 full by a private Waste Disposal Service.

Hazardous Waste

Waste oil of approximately 5-7 gallons will be generated from the servicing of the loader, and chainsaw. The waste oil will be stored in tightly covered 5-gallon plastic pails to avoid spillage and they will be kept in the mechanic workshop. The waste oil will be reused on the chainsaw.

Prepared by: Glen Seubarran

Date: 10th June, 2023