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Amazon Exotic Lumber

PROJECT SUMMARY

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FORESTRY DEPARTMENT

Name of Developer: Cuthbert Cyrus

Developers' Address: 88 Ideal Road Soesdyke Linden Highway

Contact details: 6801071

Project Type: Sawmill

Projected Capital Investment: Guy\$20M

Annual Turnover: Projected Guy\$10M

Project Duration: Approx. 9-15 years dependent on customers' demands

Project Location: Plot 33 & 34 Loo Creek Commercial & Industrial area on the eastern side of the Soesdyke highway.

Project Location and Description

Amazon Exotic Lumber is a sawmill business dedicated to producing high-quality lumber products to meet the growing demands of the construction, furniture, and woodworking industries, which will be located on Plot 33 & 34 Loo Creek Commercial & Industrial area on the eastern side of the Soesdyke highway, our facility is strategically positioned near abundant forest resources, ensuring efficient and sustainable raw material sourcing. Our mission is to provide reliable, cost-effective, and environmentally responsible lumber solutions to a broad customer base, including wholesalers, retailers, contractors, and custom woodworkers.

With increasing demand for timber products driven by growth in housing, commercial infrastructure, and renovation projects, Amazon Exotic Lumber is poised to capitalize on these opportunities through advanced milling technology, skilled labor, and a commitment to quality and sustainability. Our project summary outlines the pre-construction phase, construction phase, operational phase and environmental affects and mitigation measures that will guide our growth and success in the competitive lumber industry.

The surroundings of the operation appeared to be mixed with operations similar in nature.



Pre-construction phase

The proposed area will be cleared of vegetation with a brush cutter and the vegetation will be kept in a designated area to be decomposed and one person will be hired to complete this task. 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

The infrastructures such as the office, dwelling house, washroom with toilet and septic tank and mill shed and mechanic workshop have to be constructed with the dimensions stipulated on the site plan (herein attached with the Application Form) and the equipment with the necessary electrical support has to be installed. The expected duration of this phase is about one month or may be prolonged due to bad weather. 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 the 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 is not expected to be emitted since no heavy-duty machinery such as a loader or skidder will be used. Approximately eight 8 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 center.

Operational phase

It is expected that approximately 20,000bm of logs per month will be processed at the sawmill. The sawmill will be equipped with one (1) 40 woodmizer mill, one (1) planer, one (1) edger, one (1) chainsaw, one (1) log loader, and one (1) 40 Kva generator. 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, Silverballi, 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 m³ 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 are provided by Guyana Water Incorporated (GWI) and the Guyana Power and Light Incorporated (GPL), 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. No generator will be used.

Eight (8) people will be employed to work daily at the sawmill. 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. 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 Long Creek Health Centre.

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.

Soil erosion:

Establishing a sawmill can contribute to soil erosion through several direct and indirect mechanisms such as.

Clearing of Vegetation

- Building a sawmill often requires clearing trees, shrubs, and ground cover.
- Vegetation protects the soil by absorbing rainfall and anchoring the soil with roots. Its removal exposes soil to rain and wind erosion.

Grading and Excavation

- Earthmoving activities to level land or create access roads disturb the soil structure and compact it, increasing runoff.

Mitigation Measures

Noise Nuisance

All our sound making devices' 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 for school

Sawdust generated by the mills and edger will be removed from the mill floor by a worker. The area will be cleared of 85% and the remaining 15% will be serve as buffer strip.

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 the Puran Brothers 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 persons along the Linden /Soesdyke Highway. Extractor systems will be installed on planers and connected to the dust containment bin. The

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 Puran Waste Disposal Service.

Hazardous Waste

Waste oil of approximately 5-8 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.

Soil Erosion

- Minimize Land Disturbance
- Clear only the area necessary for the mill.
- Leave buffer zones of natural vegetation around the site.
- Phase Construction
- Carry out construction in stages to limit exposed soil at any given time.
- Grade slopes following natural contours to slow water runoff and reduce erosion.

