



**THE CONSTRUCTION DEPOT AND
LUMBER YARD OF SUPENAAM CREEK
PROPOSED SAWMILL OPERATION
Project Summary**



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Mohamed George

Name of Developer: Mohamed Tareeq George ✓

Project Name: The Construction Depot and Lumber Yard of Supenaam Creek ✓

Developers' Address: 22A Dry Shore Essequibo Coast Guyana. ✓

Contact details: 616-2388 ✓

Project Type: Sawmill ✓

Projected Capital Investment: Guy\$ 15million ✓

Project Duration: Life Time

Project Location: Plantation De Hope situate on the left Bank of the Supenaam River, Left Bank of the Essequibo River.

Project Location and Description

Mr. George 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. Plantation De Hope situate on the left Bank of the Supenaam River, Left Bank of the Essequibo River. It is important to note that there is other operation that are similar in nature in the area.

Pre-construction phase

Four (4) persons will be needed for this phase. The proposed area will be cleared of vegetation with cutlass, chainsaw and brush cutter machine 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 a mill shed with the dimension of 60w x 40L, the posts will be placed on concrete bases. Equipment with the necessary electrical support has to be installed. The expected duration of this phase is about two months.

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 in waste pit located 150 meters away from the Supenaam River. 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 minimal since no heavy-duty machinery will be on site. 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 Supenaam.

Operational phase

Twelve (12) persons will be expected to be employed for this phase. It is expected that approximately 10,000 BM of logs per month will be processed at the sawmill. The sawmill will start off with one (1) woodmizer mill Lt 15, one (1) chainsaw, one (1) generator (capacity unknown) and one (1) hiab to offload and load logs. Rough lumber will be produced and these will be stored on the lumber shelves/racks (size unknown) as well as on dunnage. Timber species such as Tatabu, Torinario, Silverballi, Dukalie, Purpleheart, Greenheart, and other lumber species will be processed onsite. The logs will be sourced from Amerindian logging concessions from Essequibo and will be transported to the site by hired pontoons. The logs will be offloaded from the pontoon with a hiab and discharged near the mill for processing to remove the bark and saw it into the boards.

Utilities such as water will be provided from the Supenaam river and while electricity will be provided from a generator and also solar lights will be utilized to provide lights for the 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 loading and offloading of logs/lumber.

Particulate Matter (dust)

It is expected that dust will be emitted from the equipment such as the mill.

Mitigation Measures

Noise Nuisance

All our sound making devices.e.g. mill will be on good noise insulation properties such as hollow concrete blocks, insulation boards, solid clay bricks and will be equipped 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. 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 loading and offloading will be done during working hours and only when the need arises, we will 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 mill 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 in a waste pit after that pit is full it will be covered with soil.

Wood waste such as wood shaving will be collected/bagged from the mill floor in a timely manner we will try our best to not allow our wood shaving to accumulate to more than 15cm (6 inches) 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 such as poultry farmers and other interested in the community.

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 Cévon's Disposal Service.

Hazardous Waste

Waste oil of approximately 3 gallons will be generated from the servicing of the machines.

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. As it relates to fuel, no fuel will be stored on site, however we will purchase gasoline as the need arise and it will be transported via a small boat in tightly sealed 5-gallon pails.