



Name of Developer: Chetram Tarchand

Developers' Address: Lot 289, Devonshire Castle East Bank Essequibo

Contact details: 6953049 / 6634685

Project Type: Sawmill

Projected Capital Investment: Guy\$30M

Project Duration: Life Time.

Project Location: Long Creek Eastern Side, Soesdyke/Linden Highway

Project Location and Description

The purpose of this business plan is to invest Thirty Million (G\$ 30m) dollars for the development of a sawmilling business. CS. TARCHAND & SON SAWMILL which is a local based company that will sell inventoried lumber that are used in construction, manufacturing and home building. The sawmill will focus on processing Guyana's harvested wood, whether cut into logs, heavy timbers or hardwood and softwood species into dressed and undressed lumber to contractors and the general public for construction, flooring and decking etc. in the housing industry, Caribbean and the International Market.

The company will create a working environment that promotes environmental responsibility and a high degree of employee's involvement for efficiency and quality control to meet customer satisfaction. This investment will provide much needed job opportunities for the community of Long/Loo Creek on the Soesdyke Linden Highway. The proposed sawmill will be Located, Eastern Side, Soesdyke/Linden Highway and can be accessed from the Soesdyke/Linden Highway.

As mentioned above, CS. TARCHAND & SON SAWMILL will specialize in the sale of lumber dressed and undressed to contractors, the general public for construction in the housing industry within Guyana, the Caribbean and the international market. After the launching period is completed, the business intends to offer direct and the best quality of service when it comes to lumber, which will significantly increase the revenue of the business, the community and the country while providing a value-added advantage to the Company's operations

Objective

CS. TARCHAND & SON SAWMILL have considered the factors which contributes to a successful business base on their years of operating in the lumber sector and the fact that the Government has issued contracts for the housing sector of approximately G\$ 14.0b is proof of the Government's commitment towards infrastructural development which is a pre-requisite to make the business venture overwhelmingly successful. CS. TARCHAND & SON SAWMILL is convinced that they have made a sound decision in investing in the sawmilling business.

Mission Statement

CS. TARCHAND & SON SAWMILL is dedicated to achieving the highest possible production levels and quality of product with the aim of becoming the recognized leader in its targeted market for providing lumber at the best price.

Management Team

The Company was founded by Chetram Tarchand who has a decade of experience in the lumber industry. Through his expertise, he will be able to bring the operations of the business to profitability within its first year of operation.

Pre-construction phase

The proposed area will be cleared of vegetation with a brush cutter and cutlasses 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, washroom with toilet and septic tank and mill shed and mechanic workshop will be constructed with the dimensions stipulated on the site plan and the equipment with the necessary electrical support has to be installed. The expected duration of this phase is about one month. For the mill shed, the posts will be placed on concrete bases. 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 Puran Brothers 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 is not expected to be emitted since no heavy-duty machinery such as a loader or skidder will be used. Approximately 9 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 Hospital for treatment.

Operational phase

It is expected that approximately 30,000 bm of logs per month will be processed at the sawmill. The sawmill will be equipped with one (1) wood mizer mill, one (1) edger, one (1) chainsaw, one (1) log loader and one (1) sharpener. 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 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 a 150 kva generator, 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, office and mill shed.

Eleven (11) 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.

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)

Sawdust generated by the mills and edger will be removed from the mill floor by a worker.

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 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 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 45-gallon drums to avoid spillage and they will be kept in the mechanic workshop. The waste oil will be reused on the chainsaw.

Prepared by:

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