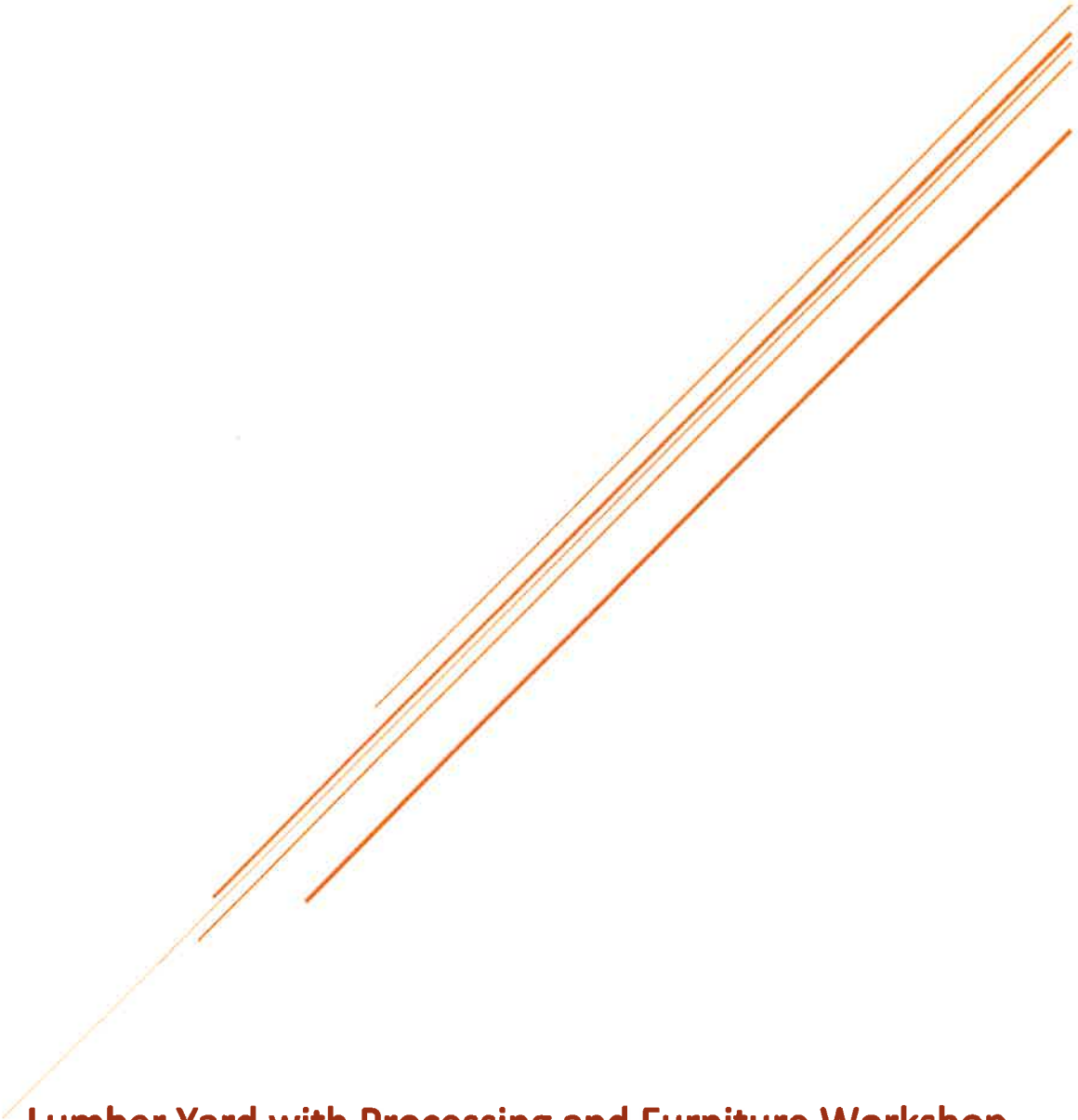


Quality Lumber Depot

Project Summary



Lumber Yard with Processing and Furniture Workshop

Name of Developer: Bishram Prashad

Developer address: 2265, Section C block X Diamond Housing Scheme East Bank Demerara

Contact Details: 6440447

Business Name: Quality Lumber Depot

Project Location: Lot 2729 Golden Grove, East Bank Demerara

Sector of Operation: Forestry

Project Type: Lumberyard (With Processing) and Furniture workshop

Project Duration: Life Time

Capital Investment: 20 million Gyd

Quality Lumber Depot

Project Description and Location

This lumber yard (With Processing) and furniture workshop project summary outlines the operational, environmental, and administrative framework for the effective management of Quality Lumber Depot. This lumberyard with processing and furniture workshop will play a critical role in processing timber into marketable wood products, value added wood products, supporting both local industry and sustainable forest utilization.

Our company will serve as a key component of the forest-to-market value chain, where by rough and dress lumber will be stock and sell for construction, furniture, and other commercial uses. Through proper planning and management, the facility aims to optimize productivity, reduce waste, enhance worker safety, and minimize its ecological footprint. This document provides a comprehensive approach to resource management, infrastructure maintenance, workforce planning, and environmental stewardship, ensuring the long-term viability of the sawmill operation.

Key Components of the Operation:

- Log pond and storage
- Processing of rough lumber into dress lumber (Under a shed 40x80)
- Furniture workshop (20LxW30).
- Storage room for finish furniture products (dimension unknown)
- Secondary processing and finishing lines
- Wood shaving and sawdust handling systems (this will be channeled into a dust bin)
- Maintenance and administrative buildings (office 10 x 10)
- Truck loading and unloading areas

Project Location

Address/Coordinates: Lot 2729 Golden Grove, East Bank Demerara

Municipality/Region: Region 4, Golden Grove East Bank Demerara, Guyana.

The project site is situated on approximately 0.484 acres of land which is rented from **Sabrina D' Aguiar**. The location was selected for its land use (Industrial Zone), existing transportation infrastructure such as the grove public road and access to utilities including electricity, water, and waste management services

Construction phase

The proposed area will be cleared of vegetation, landfilling will be required and our company will be constructing a lumber shed with a 40 x 80 dimension and a furniture workshop with the dimension of (20LxW30). Racks and shelves will be constructed under the lumber shed however the dimension is unknown at this time but it will have the capacity to accommodate 60,000 bm of lumber. Washrooms (Dimension unknown) with toilet attach to a septic tank system also equipment with the necessary electrical support will need to install.

Operational Phase of the lumberyard

Seven (7) persons will be employed to work at the facility and with working hours being from 8:00 hrs. to 16:00rs. Monday to Saturday. All loading and offloading of lumber (rough and dress) will be conducted during working hours. Personal Protective Equipment will be provided to the workers such as gloves, long boots, visibility vests and masks. A well stock first aid kit will always be kept on site to treat minor injuries and a vehicle will be on standby to transport any injured person to the nearest hospital. A total of two (2) Fire extinguisher and two (2) sand bucket will be place at strategic locations and a " No Smoking" sign. Electricity will be provided by Guyana Power and Light Company Inc. (GPL). Water for drinking purposes will be purchased and, rainwater will be harvested for domestic purposes.

The operation is strictly sourcing of rough lumber from our sawmill which is located in linden with small amount of processing to meet customer demand.

Equipment that will be on site are as follows:

- One (1) Planer
- One (1) Edger
- One (1) Loader
- One (1) Forklift

Based on market demand, rough and dressed lumber will be supplied from sawmills located in linden and Parika etc. The lumber will be transported by road via canters or trucks.

Most of the lumber that will be at the establishment will be sold to government contractors and a small amount to residents. I will ensure that all safety measures are in place when the lumber is transported to the site. The lumber will be offloaded by the workers during working hours.

Based on the demand for a specific type of dressed/ rough lumber. The pre-ordered lumber will be placed on dunnage/sticker while the remainder of lumber is stored on lumber racks/ shelves. It is anticipated that some of the lumber will have to be resized to remove split ends and to appropriate length. A hand-held electric saw will be used to resize the lumber when needed. The capacity of the lumber racks/ shelves will be to 60,000 BM of both rough and dressed lumber. Delivery of lumber to the customers will be done by a hired canter or horse carts.

Operational stage of the furniture workshop

The furniture workshop will be located at the same site with the lumberyard in a concrete building that has the dimension of (20LxW30). It will have about four (4) employees who will be responsible for making small amount furniture's such as Doors and cupboards etc. The following Machines will be used at my operation are as follows:

- Lathe- A lathe machine is a stationary cutting tool used primarily for shaping wood and metal
- Jointer - A Jointer is used to create a square surface on the edge of a board.
- Sharper - Shapers can cut much larger profiles than routers - such as for crown molding and raised-panel doors - and readily drive custom-made bits fabricated with unique profiles.
- Surfacer- This machine is used to prepare wood by creating flat faces and square edges.
- Bandsaw- This saw is used to cut intricate shapes, curves, and joints for creating custom furniture.

Waste Generation & Management

The project will utilize and generate non-hazardous waste and hazardous material during the operation. If these materials wastes are not managed properly, it can pose a risk to the environment. The methods in which these wastes would be managed are highlighted below.

Non-Hazardous Waste

Domestic-waste such as food boxes, bottles, cement bags (from the construction phase) etc., will be collected via a garbage receptacle placed at strategic point on site and will be emptied once weekly by private disposal services.

Solid waste-such as Wood waste inclusive of chips and sawdust from the resizing of lumber and from the making of furniture. The wood waste will be collected by interested person in the Golden Grove area.

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, forklift and generator. The waste oil will be stored in tightly covered 5-gallon plastic pails to avoid spillage and they will be kept in a designated area for storage also some wastes will be transported to our sawmill to be reused in the chainsaws on site.

Potential Environmental Impacts and Mitigation Measures

Mitigation Measures

Noise Nuisance

Our company plans to enclosed all sound making devices at the facility. planers with materials of good noise insulation properties such as hollow concrete blocks, insulation boards, solid clay bricks, **however there is no residents living nearby my facility but I'm willing to set the standards of my operation to the required level of the Environmental Protection Agency.** In addition, my equipment will be equipped with silencers and mufflers to reduce the noise level to also 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 operation so in case there is a fire emergency then the firefighting equipment can be used. Staffs are trained in the use of the fire extinguishers. The electrical circuits and points are checked regularly.

Vibration

All equipment will be placed on concrete foundation to dampen the vibrations and the loader will work only when the need arises. The equipment and machinery will work during working hours and serviced according to manufacturer's specifications.

Particulate Matter (dust) and mitigation

Wood shaving/ Sawdust generated will be remove daily by a worker and it will not exceed 10cm in height and sawdust from the planer will be trap in a dust containment bin, when this bin full farmers/interested persons along Golden Grove area will collect it for various personal reasons and the remainder will be used to land fill low areas around the facility

The employees will be given appropriate PPE to protect themselves from dust. Areas which will generate sawdust will be wet from time to time to keep down the dust particles.

