

LENNOX THOMAS

Environmental Protection Agency
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FORESTRY DEPARTMENT



PROJECT SUMMARY

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NAME OF COMPANY: Lennox Thomas

CONTACT INFORMATION: 592 6986225

TYPE OF PROJECT: Charcoal Burning

PROJECT LOCATION: Lot 43 Mobilissa Agriculture Layout Soesdyke Linden Highway.

DATE: 10th October, 2024.

Project overview

The plot of land that is being used for the burning of charcoal is located at tract "Lot 43 Moblissa Agriculture Layout Soesdyke Linden Highway. The land is approximately 10 acres of state land 4.1 acre will be used for charcoal burning and production.

In this organization, there are one (1) worker. The Purchasing of raw material will be from sawmill such as wood chips rejected wood product for resale as charcoal.

The organization sources drinking water from a small creek about 600 feet from the site. The effect of the burning of charcoal is air pollution. However, in the future, the organization would like to start producing briquettes, which will reduce the level of air pollution.

Burning usually takes about 4 days. When the charcoal is finished burning, it is allowed to cool naturally and takes approximately 72 hours to cool off. After which, the coal is removed from the pits with spades and filled into the polystyrene bags. Each pit produces about 4-s bags (1lb polystyrene bags) of coal.

There are no fixed working hours but all operation will be conducted in the day since the production will be based on customers' demand.

Worker will be provided with their Personal Protective Equipment (PPE) such as gloves, masks, visibility vests, long boots etc. based on job specifications. One first aid kit will be kept onsite in ease of minor cases of emergency/injury.

Process of Making Charcoal

Step 1: Acquiring lumber

Lumber will be acquired from the Sawmills along the Linden Soesdyke Highway. The wood will be transported to the sight and dumped at pits.

Step 2: Preparing the pit

The pit will be cleaned of all particles such as old zin, and fine coals. After which the wood will be packed neatly into the whole and the chimney will be placed into the pit so that the pit can be prepared for lighting.

Step 3: Lighting the Pit

Zinc will be placed around the pit, leaving the back open. Then it will be covered with sand. Fire is lit in the pit at the open back. After the fire has been lit enough, the back of the pit will be sealed with zinc to prevent the pit from burning out. Leaving it to burn until finished.

Step 4: After the burn

At the completion of the burning period, the chimneys will all have fire to indicate that the burning period has been completed. The chimneys will then be sealed, so that the pit can cool off.

Step 5: Emptying the pit

The sand from on top and around the pit, along with the zinc should be removed. The coals will then be placed into bags, to be sold.

Fuel storage

Fuel will not be stored onsite. Gas for the chainsaw will be purchased on requirements.

Waste generation

Domestic and wood waste such as sawdust and ends are expected to be generated.

Domestic Waste – inclusive food boxes, plastic bottles tins, cans etc. will be collected in bins and the bins will be emptied into a solid waste pit.

Wood Waste – inclusive of sawdust, wood ends, slight remains of charcoal etc. will be left on the forest floor to decompose. The expected quantity is not significant enough to affect the environment in any way.

Liquid Waste – Sewage will be disposed of in a pit latrine.

Hazardous Waste – The only hazardous waste generated will be waste oil of less than 0.7 liters and this will be stored in a 5-gallon plastic pail tightly closed to prevent spillage. The waste oil will be reused on the chainsaw.

The Proposed project may have an impact on air quality due to smoke and noise nuisances caused by the operation of the lighted pits and chainsaw. To mitigate these effects, only two pits will be ignited at the same time and will be monitored, as well as trees acting as buffers.

Waste management

All necessary waste management and disposal practices are in place to promote proper waste management. Garbage will be disposed of in a solid waste pit on site constructed with line material approximately 120 m away from any water body or courses. All pit latrines will be constructed and maintained in accordance with the Guyana National Bureau of Standards (GNBS) interim guidelines for the design and construction of ventilated improved pits latrines and any other relevant Authority such as Sand Hill Village Council.

Air Quality Noise management

The Sand Mine will fully comply with the guidelines of the Environmental Protection Agency Air Quality Regulations 2000 and Noise Management Regulations 2000. As Such all Noise making equipment on site will be equipped with appropriate silencers or muffles and/or suitably enclosed. This equipment will also not be operating between 18:00 hrs. to 6:00 hrs. on any given day.