



**Environmental  
Protection  
Agency - Guyana**

**ENVIRONMENTAL AUTHORISATION SCREENING REPORT**

**NAME OF COMPANY:** Lucky Star Trading

**TYPE OF PROJECT:** Manufacturing and Storage Bond

**LOCATION OF PROJECT:** Plot A7 Plantation Sage Pond, Eccles-Ramsburg, East Bank  
Demerara

## **1.0 INTRODUCTION**

### **EXECUTIVE SUMMARY**

The Agency received an Application for Environmental Authorisation on January 06, 2023 from Lucky Star Trading for a Manufacturing Facility and Storage Bond at Plot A7 Plantation Sage Pond, Eccles – Ramsburg, East Bank Demerara.

The application was acknowledged on January 06, 2023, and a verification inspection was conducted at the location on January 09, 2023. The verification inspection and the review of the documents submitted confirmed the following:

- 1) The project will be established on the southern side of the Eccles Road (opposite the Haags Bosch Sanitary Landfill site); approximately 300m from the Eccles-Diamond by pass highway.
- 2) The proposed project is in the pre-construction phase. Land clearing has commenced at the project site and approximately 5 acres has been cleared.
- 3) The project will involve the manufacturing of PVC, aluminum and stainless-steel windows, and doors. Floor decking made of wood, plastic, metal or composite will also be manufactured. Lastly, the operation also includes the production of galvanized corrugated zinc sheets using iron or steel sheets.
- 4) A storage bond will be constructed to store raw materials.
- 5) No interviews were conducted during the verification inspection as the nearest resident is approximately 500m away. Additionally, most of the immediate surrounding area, with the exception of Haags-Bosch landfill site, is presently unoccupied.
- 6) Noise emission assessment conducted at the northern boundary showed that the ambient level (average: 63.4) for noise level was **below the GNBS Industrial Day Time Limit (100 dB)**.

It can be concluded based on the existing data, technical review, observations/field inspections and exercise of discretion that the adverse impacts from this activity are **not significant**. In this regard, the project should be **exempted from 30 days public notice and therefore be granted an Environmental Authorisation**.

### **PROJECT OVERVIEW AND DESCRIPTION**

#### **1.1 Description of Operation**

The project, Lucky Star Trading intends to construct a state-of-the-art manufacturing plant that will produce and distribute a wide range of windows, doors, floor decking and zinc. The team will consist of both Chinese and Guyanese, and anticipate that they will have a compliment of eighty (80) full-time staff (including management, skilled and unskilled employees). Further, Lucky Star Trading is committed to achieving sustainable growth in a green economy, consequently the main source of energy for this project will be obtained from a solar plant and Guyana Power and Light Inc. (GPL). However, this will be supplemented by six (6) Perkins Diesel Generators: three (3) 12, 000 KVA and three (3) 80,000 KVA.

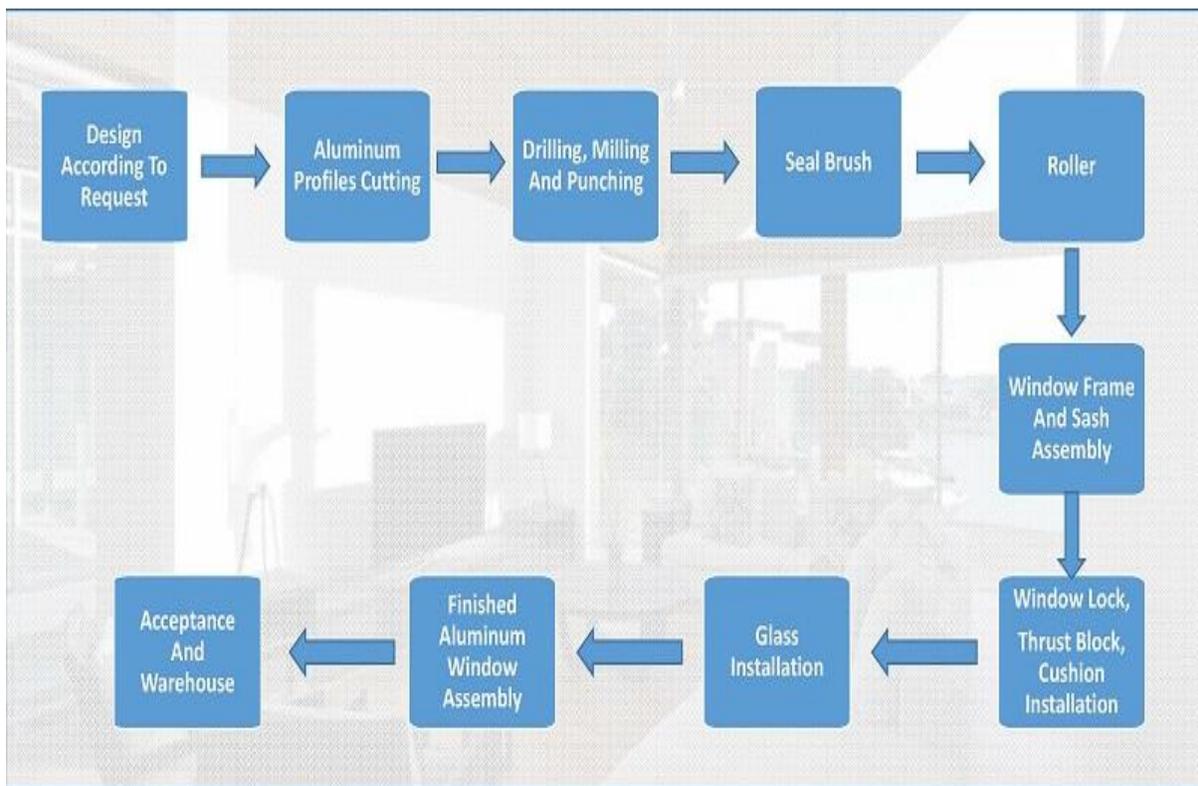
## Preconstruction and Construction Phase

The preconstruction phase of the project involves clearing and levelling the land. The construction phase will include the erection of a manufacturing facility and a storage bond. A parking lot will also be constructed.

## Operation Phase

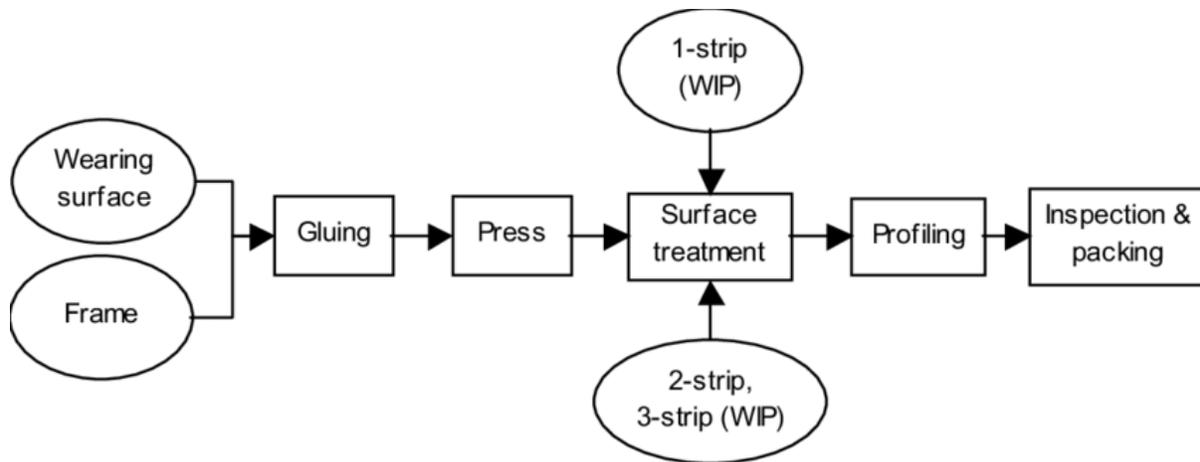
The operating process includes the storage of raw materials such as wood, plastic, metal & composite materials (for decking) and metal rolls (corrugated galvanized iron or steel sheets). During the manufacturing process the raw materials would be cut and assembled according specifications. Assembly of the parts will involve welding, drilling and screwing the various components together. Further, the manufacturing or windows will involve the cutting of glass. Painting (spray)/coating of products will also be done at the project site.

The production of PVC, Aluminium and Stainless-Steel windows and doors will be as follows (please see flow charts below):



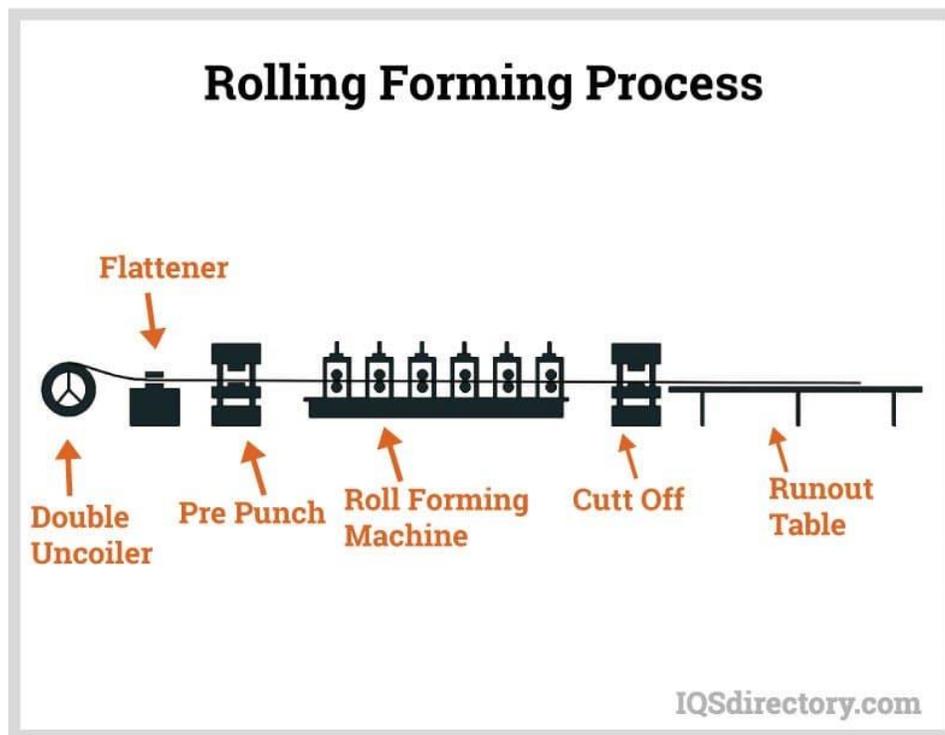
**Flow chart showing window manufacturing process.**

Lucky Star Trading will be manufacturing floor decking made of wood, plastic, metal or composite. The production of wooden floor decking will be as follows:



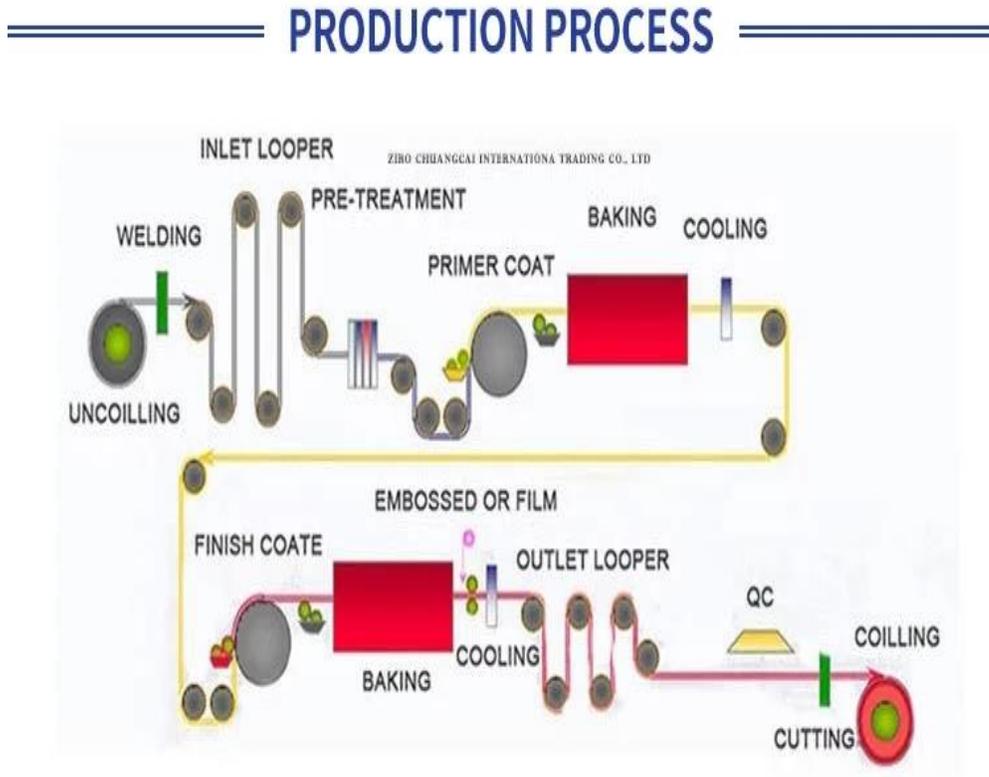
**Flow chart showing the production process for wooden floor decking.**

The production of wooden floor decking will be as follows:



**Flow chart showing the production process for metal floor decking.**

The production of galvanized corrugate zinc sheets will be as follows:



**Flow chart showing the production process for galvanized corrugated zinc sheets.**

### **1.2 Project Location**

The proposed project location is at Plot A7 Plantation Sage Pond, Eccles – Ramsburg, East Bank Demerara. When approaching from the Mandela to Eccles by pass road, a left turn should be made at the round-about unto the Eccles (landfill) road. The project is located approximately 150m in, opposite the cell one (1) of the Haag Bosch Sanitary Landfill Facility. Further, the project is situated in an industrial site, with the nearest residential area being approximately 500m away.



**Google Image 1: Zoomed in map showing the distance between the nearest resident/s and the distance between the proposed project site and the Haags-Bosch Sanitary Landfill Facility.**



**Google Image 2: Zoomed out map showing the project location and the surrounding environment.**

## ***2.0 CHARACTERISTICS OF POTENTIAL IMPACTS***

### ***AIR POLLUTION***

There is the potential for air emissions (gaseous and particulate matter) from the following activities at the Project:

- Cutting, drilling, milling and punching of materials for window production.
- Fumes from painting and coating of the components.

Given that the potential exist for air pollution the following mitigation measures will be implemented:

1. Painting will be performed within a semi-enclosed area so as to eliminate or minimize the hazard and potential impact associated with airborne particles or fumes.
2. Specialized industry standard equipment will be used to apply paint by mechanical means such as with an industrial spray-painting machine. This will minimize 'over-spray' and ensure that most of the paint is applied to the surface when sprayed and emitted into the atmosphere.
3. An air purifier (HEPA Filter) will be installed to trap dust particles.
4. All workers involved will be properly trained in the use of the equipment and will be required to wear the appropriate PPE including respiratory devices.

### ***AIR POLLUTION IMPACT SIGNIFICANCE***

Impacts to air quality from this project are **not significant** given the absence of sensitive receptors (~500m away) and the magnitude of the project which is considered low, i.e. impacts are within the boundaries of project area and its immediate surrounding environment.

Further, with the implementation of the aforementioned mitigation measures, impacts are expected to be **reversible and minor** and hence **not significant**.

### ***NOISE POLLUTION***

Noise from the Project will be emitted during the construction and operational phases. Noise may be emitted from machinery used such as the glass cutting machine, glass punch, metal (zinc) cutting machine and other equipment used in the production process. The use of a generators (to be installed) at the facility will also produce noise.

While the potential exists for noise pollution, the following mitigation measures will be implemented:

- 1) The facility will be partially enclosed (75%).
- 2) Machines will be enclosed to reduce the amount of noise emitted into the work place. Barriers and screen will be used to block the direct path of sound.

During the EPA's inspection, noise assessments was conducted

at the facility to determine ambient noise levels. The results of the assessment are as follows:

**Average point during the period: 63.4 dB**

*The average readings at the Boundary were below the GNBS Industrial Day Time Limit (100 dB).*

### **NOISE POLLUTION IMPACT SIGNIFICANCE**

Impacts to noise quality from this project are **not significant** given the absence of sensitive receptors (~500m away) and the magnitude of the project which is considered low, i.e. impacts are within the boundaries of project area and its immediate surrounding environment.

Further, with the implementation of the aforementioned mitigation measures, impacts are expected to be **reversible and minor** and hence **not significant**.

### **SOIL POLLUTION**

There is a potential for soil contamination from the improper disposal of solid waste. There is also potential for soil contamination due to accidental discharge of paints and waste oil (from the maintenance of generators).

Given the potential for soil contamination to occur, the following mitigation measures that will be implemented:

1. All hazardous material such as paints, waste oil, etc. will be properly stored in appropriate containers;
2. The handling of these items, including opening and dispensing, will be performed in a bunded area specifically designed for spill containment;
3. In the event of spillage, the spilled material will be immediately cleaned up using absorbent material such as absorbent pads, rags, sawdust, etc.;
4. The absorbent material will then be stored in hazmat containers and disposed of using an EPA authorized hazmat handling contractor.
5. Solid waste (office and domestic waste) will be disposed of by authorised waste disposal company.

### **SOIL POLLUTION IMPACT SIGNIFICANCE**

Impacts to soil is **not significant** given the magnitude of the project which is low, i.e. impacts are within the boundaries of project area and its immediate surrounding environment.

Further with the implementation of the above-mentioned mitigation measures, impacts are expected to be **reversible and minor** and hence **not significant**.

### **WATER POLLUTION**

There is a potential for water contamination from the improper disposal of effluent (from the production of floor decking). There is also potential for water contamination due to accidental or improper discharge of paints and waste oil.

Given the potential for water contamination to occur, the following mitigation measures that will be implemented:

1. Water used in the production process will be treated using carbon filtration and deionization before discharge.
2. All hazardous material such as paints, waste oil, etc. will be properly stored in appropriate containers;
3. The handling of these items, including opening and dispensing, will be performed in a banded area specifically designed for spill containment;
4. In the event of spillage, the spilled material will be immediately cleaned up using absorbent material such as absorbent pads, rags, sawdust, etc.;
5. The absorbent material will then be stored in hazmat containers and disposed of using an EPA authorized hazmat handling contractor.

### **WATER QUALITY IMPACT SIGNIFICANCE**

Impacts to water quality are **not significant** given the magnitude of the project which is low, i.e. impacts are within the immediate surrounding environment.

Further with the implementation of the above-mentioned mitigation measures, impacts are expected to be **reversible and minor** and hence **not significant**.

### **3.0 PROJECT SIGNIFICANCE**

#### **Criterion 1 Project Location**

This project is in an area comprised of mainly of empty vegetated land. The area is not considered densely populated or a High- Density Industrial Zone. (*Refer to Google image 1 above*).

#### **Criterion 2 Environmental Sensitivity**

The project is not located in close proximity to any environmentally sensitive areas (*Refer to Google image 1*).

#### **Criterion 3 Levels of Public Concern:**

The level of Public Concern is considered low. There are presently no residents in close proximity to the project.

### **SUMMARY OF SIGNIFICANCE**

<b>Impact</b>	<b>Significance</b>	<b>Summary of Reasons</b>
Air Pollution	<b>Low</b>	Impacts to air quality from this project are <b>not significant</b> given the absence of sensitive receptors and the magnitude of the project which is considered low, i.e. impacts are within the boundaries of project area and its immediate surrounding environment. Further, with the implementation of the aforementioned mitigation measures, impacts are expected to be <b>reversible and minor</b> and hence <b>not significant</b> .

Noise Pollution	<b>Low</b>	Impacts to noise quality from this project are <b>not significant</b> given the absence of sensitive receptors and the magnitude of the project which is considered low, i.e. impacts are within the boundaries of project area and its immediate surrounding environment. Further, with the implementation of the aforementioned mitigation measures, impacts are expected to be <b>reversible and minor</b> and hence <b>not significant</b> .
Soil Pollution	<b>Low</b>	There is a potential for contamination of soil from the activities of this project. However, the impacts to soil are not significant given the magnitude of the project which is low, i.e. impacts are within the boundaries of project area and its immediate surrounding environment.  Further with the implementation of the above-mentioned mitigation measures, impacts are expected to be <b>reversible and minor</b> and hence <b>not significant</b> .
Water	<b>Low</b>	Impacts to water quality are <b>not significant</b> given the magnitude of the project which is low, i.e. impacts are within the immediate surrounding environment.  Further with the implementation of the above-mentioned mitigation measures, impacts are expected to be <b>reversible and minor</b> and hence <b>not significant</b> .

## **CONCLUSION & RECOMMENDATION**

It can be concluded based on the existing data, technical review, observations/field inspections and exercise of discretion that the impacts from this activity are **not significant**.

Additionally, **no EIA is required** given that the project is located in an industrial area (approximately 500m away from residents); and it is not in close proximity to any environmentally sensitive area i.e., having special environmental attributes worthy of retention or special care, having ecological significance, or rare ecosystems or habitats with species at risk.

Therefore, in keeping with **section 11 (2)(a)** where it is clear that the project **will not significantly** impact the environment given that the impacts from the project are **low, acceptable and adequate** measures are in place to address any severe environmental impacts; it is recommended that the project be placed on **30 days public notice** and forwarded to **permitting** if there are no objections.

## PICTURES



**Image 1: The project site showing western boundary.**



**Image 2: The project site showing eastern boundary.**

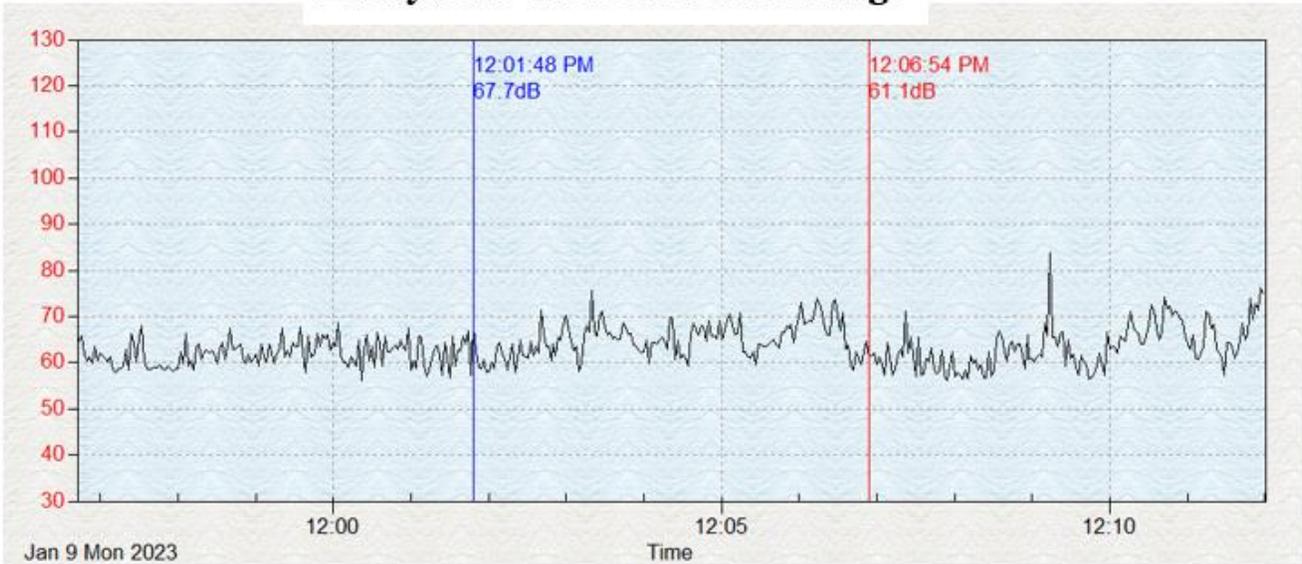


**Image 3: The project site showing northern boundary.**



**Image 4: The project site showing south-western boundary.**

### Lucky Star - Noise Level Readings



**Graph: Showing the Results of Noise Assessment at Northern Boundary of the Project site**