

LUCKY STAR TRADING

LOT 43 WELLINGTON STREET, LACYTOWN, GEORGETOWN, GUYANA

PROJECT SUMMARY



Prepared by:

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LUCKY STAR TRADING

1. EXECUTIVE SUMMARY

COMPANY DESCRIPTION

LUCKY STAR TRADING is a new local business entity, which is now establishing its major operations in Guyana and intends to become the market leader in the Manufacturing and Commercial Sectors in Guyana. The business has an established management team with decades of direct experience in this project area; with the necessary technical and marketing experience too.

The business is committed to furthering the Government's agenda of sustainable growth in a green economy. As such, its facilities will have a major portion of its power needs met by solar power. All of its employees will be trained in basic environmental management, and specific environmental management processes relative to their individual tasks. The Business seeks to be certified and compliant with all the necessary Occupational Health and Safety (OSHA) requirements.

With these aspects of its business, LUCKY STAR TRADING will provide excellent services and manufacturing quality products at affordable prices to all customers. Implementation of its strategic objectives will help the business to grow, increase its market share, and ensure its long-term sustainability. The business anticipates our full-time staff compliment of 80, comprising of Management, Skilled and Unskilled employees as it seeks to be commission in 24 months.

2. **MOTTO:** "Environmental protection can effectively reduce environmental pollution".

3. BUSINESS OBJECTIVES:

- **To reduce environmental impact:** Effective waste management enables the business to minimize its business's adverse effects on the environment.
- **Staying compliant with regulations:** A robust waste management program will keep business in compliance with local laws and regulatory bodies.
- **Lowering disposal costs:** Proper waste management services, can often reduce the business disposal costs. The business will find ways to reuse and recycle its, thus curbing its expenses significantly.
- **Reducing the business logistical burden:** Proper waste management services will reduce the logistical strain on the business and its resources. When the business works with a dependable waste disposal plan, more energy can be focus on the core business processes.
- **Ensuring worker's health and safety:** The Business aims to maintain a safe, comfortable working environment for employees. A good waste management plan helps do that by educating the workers about safe waste handling practices and reducing the likelihood of disposal-related injuries.

4. LUCKY STAR TRADING WILL FOCUS ON '4R' WASTE STRATEGY.

1.Reduce: involves limiting the amount of waste we create, such as training of employee to maximize resources. The Business might discover that more material is coming into its

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facility than is necessary. The Management will Brainstorm ways to scale the sourcing back and minimize the amount of waste the business produce.

2.Reuse: is second and includes using products more than once, which helps to save money, energy and resources.

3.Recycling: which involves turning waste products into new items, what waste the business can divert from its disposal stream and break down for recycling. For instance, the waste paper, glass, metal or plastic products, engage business who recycle those in area.

4.Recover: Waste products you can recover for resale often include scraps of metal and leftover manufacturing materials. With a waste-to-energy program, the business can also recover energy from combusting waste.

Dispose: Generally, everything that remains after the business has exhausted the options above must go to a Landfill Site /Waste Management Site at **Haags Bosch, Eccles, East Bank Demerara**. With effective waste management practices, the business can often minimize the amount of waste that falls into this category and develop strategies for responsible disposal.

5. **ASSIGN RESPONSIBILITY:** The business will have a designate Officer, who will be responsible for managing waste on site. This will ensure that a waste management plan is followed by the team and corrective action taken to minimize any breakdown.
6. **COMMUNICATION AND TRAINING:** The business will educate and inform all workers and subcontractors (**Puran Brothers Inc., Cevons Waste Management and Buyers of Waste for Recycle**) about the waste minimization goals and objectives for the business and the waste management system that will be established.
7. **ENCOURAGE PARTICIPATION.** **Lucky Star Trading** will be putting the waste minimization record up on the site noticeboard and update it regularly to let everyone know about progress, and set up an ideas board for waste-related suggestions.
8. **WASTE TYPES AND AMOUNTS INVOLVED:** At this junction the business will identify the **TYPE OF WASTE** involved **BUT** is unable to give the amounts. This can be determined when the business starts its production and overtime will be in a position to give an average amount.
9. **WASTE AUDIT.** The Business will be managing its waste most effectively, by identify waste involved in its production processes. The Business will be employing professionals including a Waste Management Auditor, who reports: what waste the business facility generates, what volumes of those wastes it produces and what departments produce the most waste. Identifying waste with the help of a waste audit is essential because it allows the business to manage its waste more strategically. An audit like this is also beneficial for determining where excessive waste occurs in your business.

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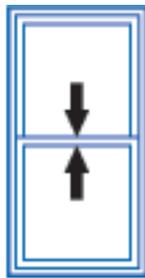
10. LIST OF KEY STAKEHOLDERS: 1. Waste Management Site at Haags Bosch, Eccles, East Bank Demerara, 2. Puran Brothers Inc., 3. Cevons Waste Management 4. Buyers of Waste for Recycle 5. Ministry of Labour (OH&S Department) 6. Environmental Protection Agency and other Regulatory Bodies in Guyana.

The PROJECT

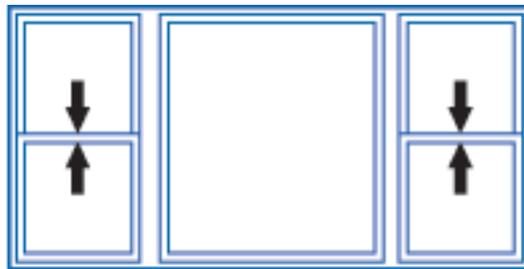
LUCKY STAR TRADING is currently seeking to establish a **State-Of-The-Art Manufacturing and Storage Facility** which includes the manufacturing of the following:

1. PVC, Aluminium and Stainless Steel, Glass Windows Assembly

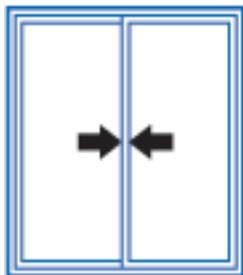
Individually designed windows and doors, special dimensions, smallest or large batches - this is now a reality in terms of window and doors construction



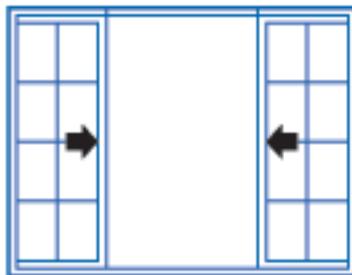
Double-Hung



Picture Window with Double-Hung Flankers



2 Lite Slider



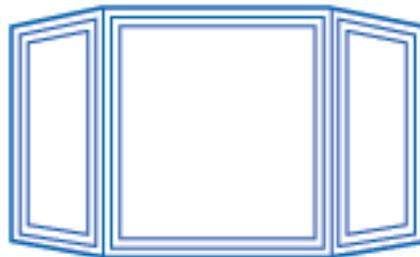
3 Lite Slider



Circle Top Designs



Casement



Bay and Bow Windows



Garden Windows

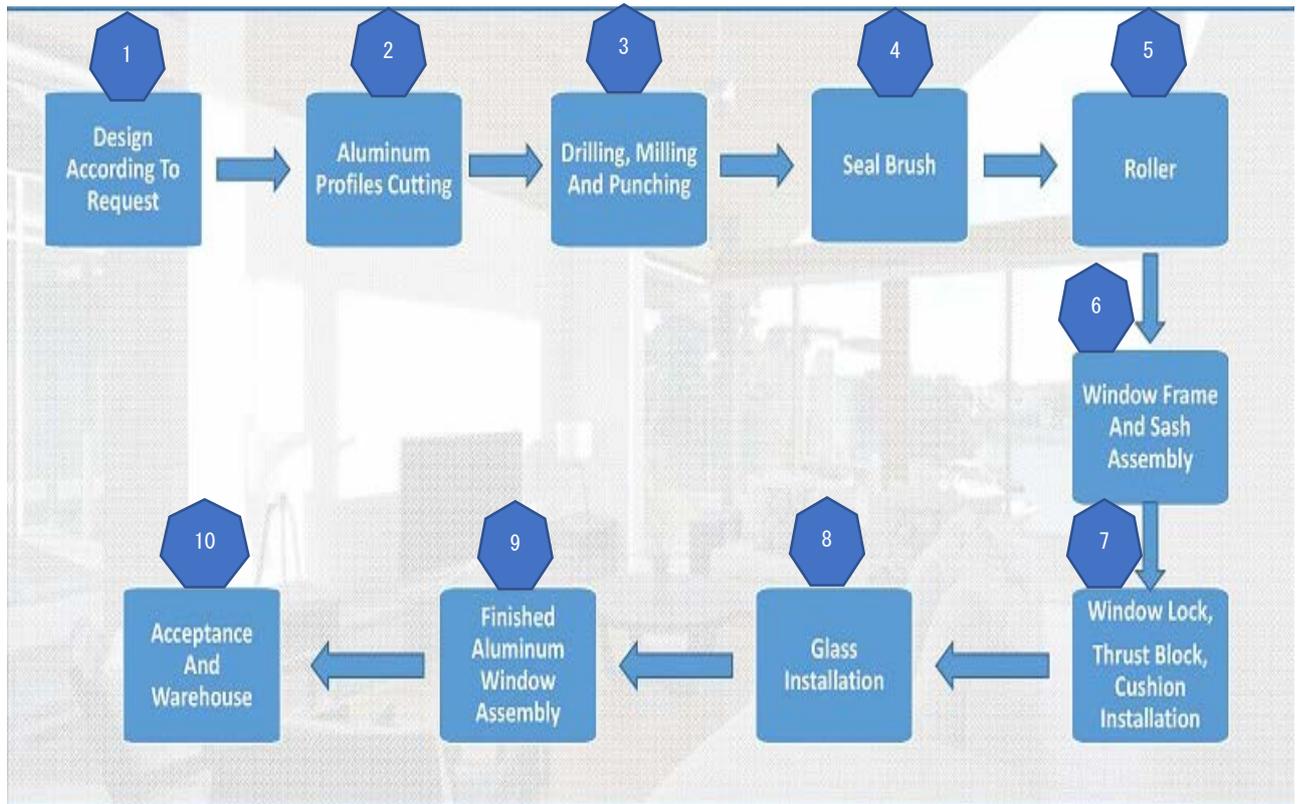
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Assembly-line and Workshop



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Windows Assembly Process Flow Chart



In the above Production Process, waste in the form of:

- #2, #3, #4 halo sections, strips, shaving, small pieces of PVC, aluminum and steel
- #7 and #8 pieces of rubberized cushion and pieces of glass will be generated; however, the business will be:
 - Placement of refuse and recycling bins
 - Labeling of refuse and recycling bins
 - Ensuring the reliability and timely Contractual services that pick up the facility's waste for recycle, reuse or EPA regulatory disposal.

In lieu of the above, The Factory will operate:

- A. In a 75% enclosed facility thus, there will be no noise nuisance to the public.
- B. Noise Pollution: Enclosures around machines will be erected to reduce the amount of noise emitted into the workplace or environment, barriers and screens will be used to block the direct path of sound and Earmuff, which will block out noise by completely covering the outer ear.
- C. Workers would have full protected gears including: body suits and dust mask.
- D. No hazardous chemical will be used.
- E. No manufacturing of raw material - All raw materials, whether in sheets, halo sections, strips, glass or other forms, will be purchased from suppliers.

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- F. An air purifier (**HEPA Filter**) will be used to trap those dust particles before they have a chance to settle. According to the EPA, it can remove at least 99.97% of dust, pollen, mold, bacteria and any airborne particles with a size of 0.3 microns
- G. **Eco-friendly windows will often have a low-emissivity (Low-E) glass coating applied.** Low-E glass reflects heat back into the room during the winter and reflects it away from the room during summer. Additionally, Low-E glass blocks most of the sun's harmful UV rays, improving the performance and style of windows.

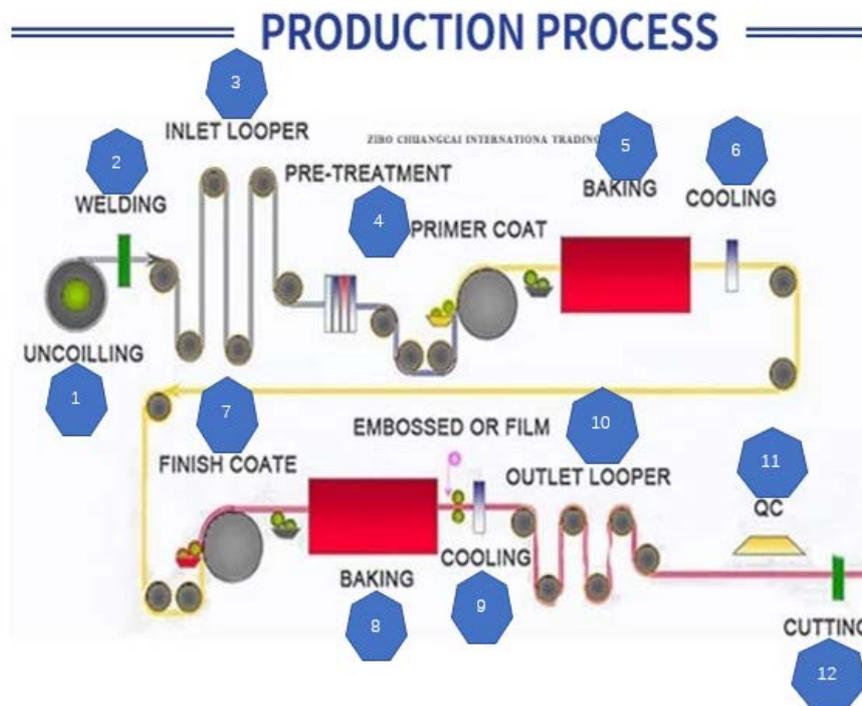
2. Galvanized / Corrugated Zinc Sheets Assembly line

LUCKY STAR TRADING aims to be a leading, reliable professional supplier of **galvanized/corrugated** sheet.

What is corrugated zinc sheet?

Corrugated Galvanized Iron or Steel sheets are a **lightweight roofing material made of thin sheets, stiffened by corrugations.** Corrugations, such as waves, considerably increase the strength and stiffness of the lightweight material. Indeed, without these waves, the metal sheets are fragile and highly deformable.

Lucky Star Trading Galvanized / Corrugated Zinc Sheets Assembly line



In the above production process, **waste in the form of:**

- # 1 - wooden pallets and card board and plastic raps
- # 2 - welding rods

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#4 - Primer spray paint and containers

6 - water for cooling

#7 - spray Paint and containers

9 - water for cooling

12- shaving from final cutting

To effectively manage the waste:

- Wooden pallets will be transported to the repairs & recycle area in the compound.
- Strategic placement of refuse and recycling bins in the above-mentioned process.
- Labeling of refuse and recycling bins
- Water used in this process will be treated thus reducing pollution to the environment.
- **Carbon and Sediment Filtration:** This process uses physical filtration to remove both organic and inorganic compounds from the feed water. The filter's fineness can be changed to meet industrial standards.
- **Deionization:** Ions in water can also interact with production equipment and materials.
- Ensuring the reliability and timely Contractual services that pick up the facility's waste for recycle, reuse or EPA regulatory disposal.

In lieu of the above, The Factory will operate:

A. In a 75% enclosed facility thus there will be no noise nuisance to the public.

B. Noise Pollution: Enclosures around machines will be erected to reduce the amount of noise emitted into the workplace or environment, barriers and screens will be used to block the direct path of sound and Earmuff, which will block out noise by completely covering the outer ear.

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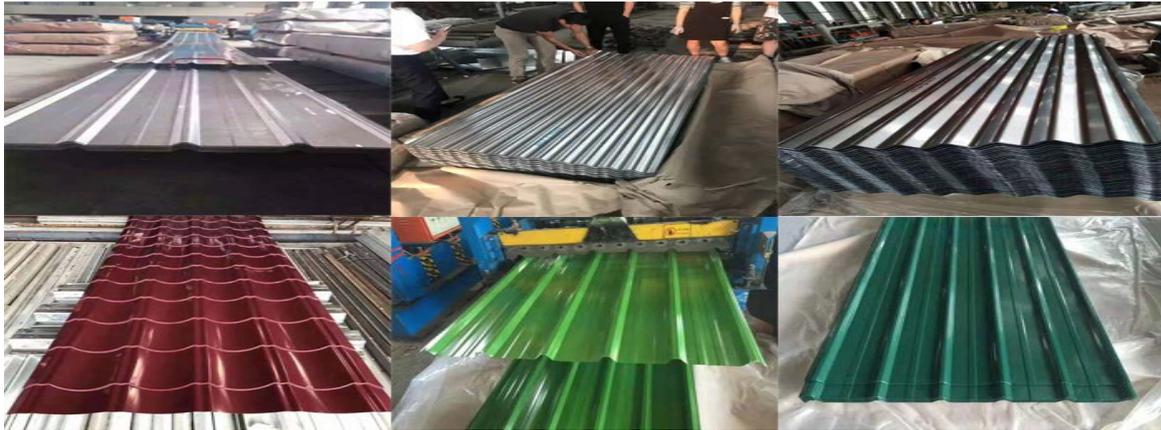
E No manufacturing of raw material - All raw materials, whether in sheets or other forms, will be purchased from suppliers.

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Zinc is not only a sustainable option during use, but the recycling thereof also works to reduce concentrate demand, energy use, emissions and reducing waste disposal.

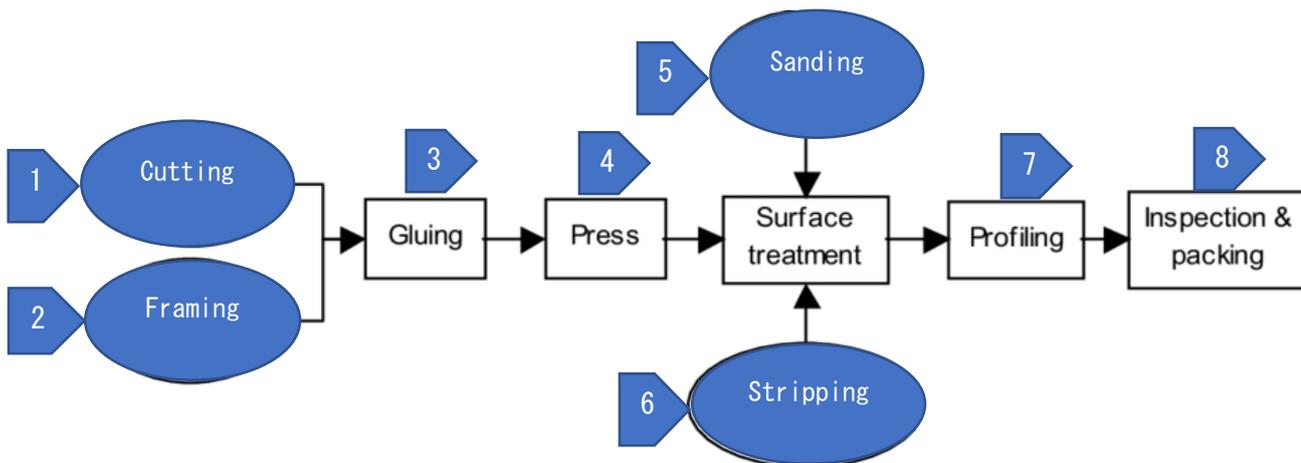


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3. Floor decking includes **all types of structural decking materials that are used as walkway surfaces**. Most products are made of wood, plastic, metal or composite materials.

(A) Lucky Star Trading WOOD Floor Decking Assembly Line Process.



In the above production process - **waste in the form of:**

- # 1 - Cutting: saw dust, pieces of wood-ends
- # 3- Gluing: droplets of glue and glue containers
- # 5- Dust and sand-sheets
- # 6 - stripping: wood shavings

To effectively manage the waste, the business will:

- Strategic placement of refuse and recycling bins in the above-mentioned process.
- Labeling of refuse and recycling bins
- Ensuring the reliability and timely Contractual services that pick up the facility's waste for recycle, reuse or EPA regulatory disposal.

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In lieu of the above, The Factory will operate:

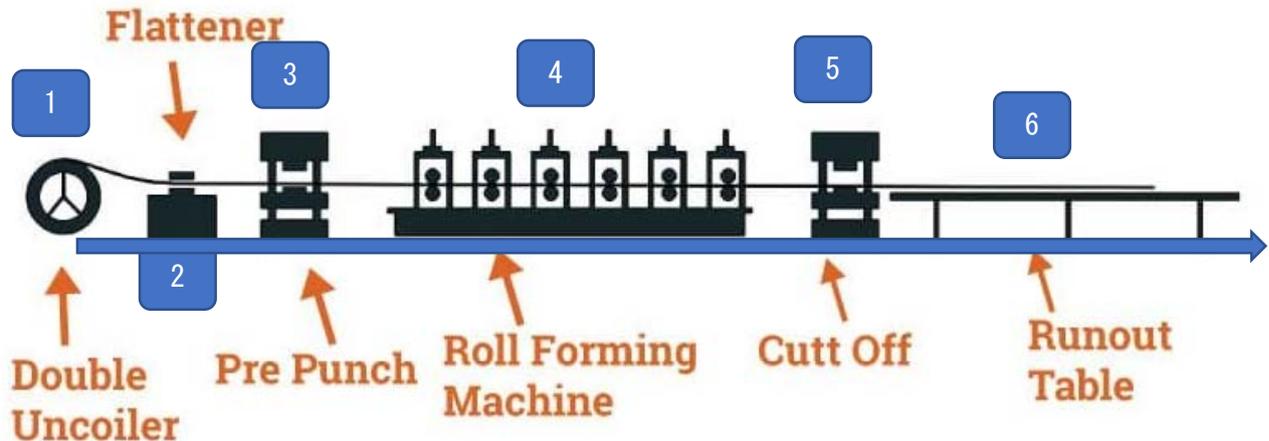
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- C. Workers would have full protected gears including: body suits and dust mask.
- D. No hazardous chemical will be used.
- E. No manufacturing of raw material - All raw materials, whether in sheets, halo sections, strips, glass or other forms, will be purchased from suppliers.
- F. An air purifier (**HEPA Filter**) will be used to trap those dust particles before they have a chance to settle. According to the EPA, it can remove at least 99.97% of dust, pollen, mold, bacteria and any airborne particles with a size of 0.3 microns
- G. Ensuring the reliability and timely Contractual services that pick up the facility's waste for recycle or EPA regulatory disposal.



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(B) Lucky Star Trading METAL Floor Decking Assembly Process.

Rolling Forming Process



In the above production process - **waste in the form of:**

1 - Double Uncoiled: wooden pallets and cardboard and plastic raps.

5- Cutt Off: small pieces and fine strips of metal.

To effectively manage the waste, the business will:

- Wooden pallets will be transported to the repairs & recycle area in the compound.
- Strategic placement of refuse and recycling bins to collect waste in the above-mentioned process.
- Labeling of refuse and recycling bins
- Ensuring the reliability and timely Contractual services that pick up the facility's waste for recycle or EPA regulatory disposal.

In lieu of the above, The Factory will operate:

A. In a 75% enclosed facility thus there will be no noise nuisance to the public.

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4. **Zinc is not only a sustainable option during use**, but the recycling thereof also works to reduce concentrate demand, energy use, emissions and reducing waste disposal.



Used Oil / Waste Oil: Power Generator will be used as a standby source of power in event of power outages or low voltage.

Collection and Storage of used oil on site

Used oil finds its way into the groundwater through disposal in storm water drains and directly onto the ground as a means of disposal. To prevent this, generator will be :

- Drain used oil from machinery into a clean container with a tight-fitting lid.
- DO NOT use a container that previously held chemicals, such as cleaners, solvents, fuels, paint or bleach.
- Clearly label the container “Used Motor Oil.”
- Oil change pans must be kept free of water and storage containers must be tightly sealed and covered to protect them from rainwater. Oil that is contaminated with water is far more difficult to recycle – requiring several laborious and costly processes to separate the water from the oil before it can be recycled.
- Do not mix used oil with other fluids such as antifreeze, transmission fluid, petrol, diesel etc. Mixing them may make them non-recyclable as well as very hazardous and flammable.
- Used oil containers must be kept in a place that can be accessed by the waste oil contractor and the surrounding area must be kept clear and clean.

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- Build a oil bund wall around bulk used oil storage tanks so that in the event of a spill or leak, the used oil will be contained. In the event of an oil spill, the relevant Authority will be contacted to assist with the clean-up.
- Engaged the Subcontractors /stakeholders for removal from production site.

Waste Materials

All waste materials will be carefully handled and disposed of in the following ways:

Metals: all pieces, strips, shaving etc..... of wasted metals will be collected in special labeled bins in the manufacturing process and then separated to be sold to the scrap metal, recycle dealers or taken to the waste management site.

Plastic /PVC: all pieces, strips, shaving etc....of wasted **PLASTIC /PVC** materials will be collected in labeled bins in the manufacturing process and then separated to be sold to recycle dealers or taken to the waste management site.

Wood: all pieces, strips, shaving, sawdust etc.... of wasted wood will be collected in special labeled bins in the manufacturing process and then separated to be sold to the charcoal dealers, farmers or taken to the waste management site.

Water: all wasted water used in this process will be treated thus reducing pollution to the environment.

Carbon and Sediment Filtration: This process uses physical filtration to remove both organic and inorganic compounds from the feed water. The filter's fineness can be changed to meet industrial standards. Deionization: Ions in water can also interact with production equipment and materials.

Fire Extinguishers, smoke detectors and water sprinklers, safety alarms etc...., (as recommended by OH&S Department) will be place at strategic locations in event of a fire.

Warehousing:

The first phase in product is *raw materials*, therefore warehouse **storage of all materials is needed to ensure smooth production**. When the final product is produced, it also needs a safe environment for storage.

LUCKY STAR TRADING will typically build a new and state-of-the-art warehousing facilities for three reasons:

- to increase productivity,
- to reduce operating costs, and/or
- to enhance customer service.

However, one essential remains true: a well-designed, well-operated warehouse is an essential company asset, competitively allowing it to serve both today's, and tomorrow's, product distribution needs.

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1. Pictorial view of Manufacturing and Storage Facility



CONCLUSION

LUCKY STAR TRADING will always abide by the **Occupation Health & Safety (OHS)** and **Environmental Protection Agency** rules, regulations and recommendations.