



NAME OF PROJECT:

STORAGE AND EXPORT OF USED LEAD ACID BATTERIES (ULAB), SCRAP METAL AND ELECTRONIC WASTE (E-WASTE)

NAME OF ENTITY:

AEB Investment & Trading

NAME OF DEVELOPER:

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PREPARED BY:

DM Inc.

Layout of Project



Figure 1 Indication of site position within a 500-meter radius.

PROJECT DESIGN

(STAGES OF PROJECT)

STAGE 1: OBTAINING SCRAP

AEB Investments & Trading intends to purchase used acid lead batteries, e-waste and scrap metals from local companies, government agencies, residences and other dealers. The materials will be assessed based on four (4) factors. At the end of the factor assessment the supplier will be offered a fair and competitive price.

The first factor is

1. Type of material; there is a high probability a supplier will transport more than one type of material in the same load. To separate the materials Swan Metal Recycling intends to assess such based on the amount, the materials will either be estimated or weigh separately.
2. Quality; there is a possibility that AEB will purchase materials with attachments, these attachments vary from soil to other materials. However, these materials will be assessed based on the amount of attachment they contain, which will be estimated by three main categories. These categories are clean materials, materials with 2% maximum attachments and materials with 3% or more attachments.
3. Quantity; suppliers are most likely to transport different amounts of materials to therefore they will be graded based on their load of materials. AEB will offer three (3) different scales of suppliers namely; small-scale suppliers, medium-scale suppliers, and large-scale suppliers.
4. Size; AEB intends to obtain materials at the most appropriate size which will benefit both the business and its suppliers. Materials larger than 5ft x 2ft will have a cost attached since they will have to go through additional preparation for exportation.

STAGE 2: PREPARATION OF SCRAP

After the material is assessed, purchased, and delivered AEB Investments & Trading then the preparation process begins.

Those materials that will be purchased with attachments, e.g. other material (metal, rubber, glass, etc.) or from the environment (soil, grass) have to be cleaned. These attachments that are removed will be disposed of at the Haags Bosch Industrial Land Fill Site located at Eccles East Bank Demerara.

STAGE 4: SCRAP EXPORTATION

Upon confirming the material type and amount for our clients the exportation process begins.

The vessel with the most appropriate date will be booked along with the container(s) - 20ft or 40ft depending on the client's specification. At this time the shipping documents for this shipment will be prepared.

Under the current regulations, AEB Investments & Trading Inc. will obtain loading dates from agencies such as Scrap Metal Unit (SMU), Custom Anti-Narcotics Unit (CANU), Goods Examination Unit (GEU) and Drug Enforcement Unit (DEU) before proceeding with any further step in the exportation process.

With the approval of the loading dates from the agencies, the container(s) will be delivered to yard through outsourcing transportation.

Contract employees will remove the selected type of materials from its storage and transfer them into a container. In following regulation, the stuffing of the container(s) will be done under CCTV footage, which will be uplifted by the SMU representative at the end.

After the container is stuffed with the materials, it will be transported to the GNIC scanner for scanning. The container(s) will be delivered to the wharf of the shipping company to be loaded on the vessel for the client's destination.

The above four (4) stages will reoccur for every purchase and exportation of the different types of material.

ENVIRONMENT EFFECTS & IMPACTS

Metals transported to AEB Investments and Trade Inc. will impact soil quality. Moreover, noise emissions from automobile traffic.

The company was founded exclusively to recycle scrap metal. AEB Investment Inc. will play a key role in removing scrap metal, e-waste, and old acid-lead batteries from the environment in order to decrease inappropriate disposal of scrap metal and other similar products.

PROJECT SUMMARY

Registered under the laws of Guyana AEB which is currently located at Plot 48-49, Paradise Village, East Coast Demerara intends to operate as exporting entity for scrap metal. This business will obtain large quantities of various materials from local companies, government agencies, residences, and other dealers which will be traded on the global market.

MITIGATION MEASURES

Hazards exist but can be mitigated or prevented wholly to avoid harm to individuals or the environment. These are a few measures to reduce possible adverse impacts on the environment and humans.

- A concrete base will be constructed to store scrap metal to prevent possible leaching of hazardous waste.
- The ULAB (used lead acid batteries) will be covered with a tarp to prevent exposure to the elements of weather and placed in a concrete base.
- Cables will be stored in a container
- All equipment will be stored appropriately when not in use to avoid slips and trips.
- All personnel will be provided with suitable PPE and will be trained in operating heavy machinery correctly.

MITIGATION MEASURES

- All ULAB will be covered with tarpaulins.
- Metals will be segregated according to type (ferrous and non-ferrous)
- All lead acid batteries that are drained on site, will be neutralized with the use of Sodium Bicarbonate solution (Baking Soda).
- Waste treatment and disposal of neutralized acid solution from drained batteries, are to be stored until disposal by an authorized waste treatment company.
- All scrap metals will be stored on impervious surfaces.
- Transportation of scrap metal will be done utilizing the BAT methods for transportation to reduce and control environmental impact.
- Exportation of scrap metal will utilize the Guyana Scrap Association, mode of Exportation.