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WASTE MANAGEMENT PLAN

Approved by:				
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1.0. PURPOSE

The purpose of this procedure is to ensure that the waste generated from construction activities is effectively identified, segregated, collected, handled and disposed off as per defined frequency.

2.0. SCOPE

This procedure is applicable to all types of waste produced and disposed at sites. This procedure is in line with corporate level of EPA procedure of Waste Management.

3.0. RESPONSIBILITIES

3.1. Site Engineer is responsible to:

- 3.1.1. Implement this procedure on site
- 3.1.2. Ensure all legal and regulatory and contractual obligations related to waste are implemented
- 3.1.3. Communicate procedural requirements to his staff/employee and ensures their implementation
- 3.1.4. Implementing the requirements of this document and for ensuring that all wastes are managed in a safe and environmentally acceptable manner.
- 3.1.5. Selection of EPA approved hazardous waste management contractor and ensure waste disposal certificate of hazardous waste in environment friendly manner.
- 3.1.6. Receiving of receipt of handing over of non-hazardous waste to Municipality.
- 3.1.7. Ensure the documentation in place to track wastes from point of generation to final disposal

3.2. Site supervisor is responsible to:

- 3.2.1. Assists Site Engineer
- 3.2.2. Ensure that wastes are properly segregated, stored, transported and disposed off in an environmental friendly manner.

3.3. HSE Representative is responsible to:

- 3.3.1. Provide technical support and advice on the interpretation and implementation of this procedure
- 3.3.2. Reviewing/updating/revising this procedure in the light of experience gained advancements of waste management service provider in the local market, lesson learned and inputs.
- 3.3.3. To conduct the training sessions to make the workers fully aware of this procedure.
- 3.3.4. Generate reports and maintain all documentation pertaining to waste.

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4.0. DEFINITIONS

4.1. Construction and Demolition Waste

- 4.1.1. Waste arising from construction, repair, maintenance and demolition of buildings and structures.

4.2. Incineration

- 4.2.1. The controlled combustion of waste to reduce its volume or toxicity

4.3. Inert Waste

- 4.3.1. Waste which, when deposited into a waste disposal site, does not undergo any significant physical, chemical or biological transformation.

4.4. Landfill

- 4.4.1. Area of land, typically a void from previous mining or quarrying, or specifically engineered, in which waste is deposited. In areas where there is no available void, the process is referred to as land rising and waste is deposited on the land surface.

4.5. Proximity Principle

- 4.5.1. The Principle that waste must generally be disposed of as near to the place of production as possible.

4.6. Recycling

- 4.6.1. The reprocessing of waste into the same or a different product typical recyclable wastes include glass, paper, plastics etc.

4.7. Reduction

- 4.7.1. Process of reducing the quantity of waste produced through the review of operational practices and optimal use of raw materials.

4.8. Waste

- 4.8.1. Wide ranging term taken to include any scrap material, effluent or unwanted surplus substance or article which requires to be disposed of Explosive and radioactive wastes are excluded.

Non-Hazardous Industrial and Commercial Waste

- 4.8.2. Non-hazardous wastes include inert construction wastes such as glass, scrap metal, used containers etc. These materials generally pose little risk to the environment and can be disposed of to appoint waste location or normal municipality facilities.

Hazardous Waste

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4.8.3. Hazards wastes are those wastes which by virtue of their concentration of constituents and characteristics (such as ignitibility, corrosiveness, reactivity, toxicity etc.) pose a hazard to human or environment if not properly treated, stored, disposed off or managed.

4.9. Waste Management

4.9.1. A system that addresses the issues related to waste minimization, generation, segregation, transport, disposal and monitoring.

4.10. Waste Inventory

4.10.1. Document identifying all sources of waste generated by a facility.

4.11. Site Engineer:

4.11.1. [COMPANY] Representative on site supervising activities

4.12. HSE Lead:

4.12.1. [COMPANY] Representative on site responsible for HSE systems

5.0. ABBREVIATION

HSSE: Health, Safety, Security & Environment

PR: Procedure

FM: Form

PR: Procedure

TMC: Town

EPA: Environmental protection Agency

6.0. PROCEDURE

6.1. General Classification of Waste:

Waste is defined as any substance or object which the producer or the person in possession of it discards, or intends or is required to discard. The term includes scrap material, effluent, or unwanted surplus substances or articles which require to be disposed of because they are broken, worn out, contaminated or otherwise spoiled. Construction waste is typically classified into following two categories:

- I. Domestic waste
- II. Non-hazardous industrial and commercial waste
- III. Hazardous waste

6.2. Domestic waste

This includes wastes such as Black water (Toilet waste), Grey water (Shower, Bath, hand basins, clothes washing machine laundry troughs and the kitchen)

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6.3. Non-hazardous industrial and commercial waste

This includes wastes such as (but not limited to) Empty cement bags, Excavated soil, Construction debris, Mechanical Scrap, plastic waste, Food waste etc.

6.4. Hazardous waste

This includes wastes such as (but not limited to) used lube oil, paints empty cans and used filter etc.

7.0. WASTE SEGREGATION/LABELING

All types of solid wastes are properly segregated in color coded / labeled drums for identification. Segregation preferably to be done as close as possible to the source of generation.

As per EPA policy the different color coding will be used for waste segregation. Empty drums in good physical conditions are normally used at sites.

- Red for Hazardous & Flammable
- Green for Metal & Glass
- Blue for House hold & Food
- Black for Paper & card board



8.0. HANDLING, STORAGE AND DISPOSAL OF WASTE

Waste materials generated by construction's activities normally require some form of temporary storage, till final disposal. Allied contractors ensure that suitable and sufficient temporary storage is provided to accommodate waste from their activities. The maximum retention time for temporary storage of waste is decided by Site Engineer keeping in view waste generation frequency and its posed risks.

On site [COMPANY], a waste storage area is designated where wastes are stored till final disposal. The area is clearly displayed at prominent location indicating "Waste Storage Area".

In waste storage area, waste is segregated into Hazardous and Non-Hazardous, with clear markings on all receptacles specifying which type of waste they contain.

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Liquid waste will be handled and stored in a manner that will not cause leakage, spillage or damage to container as well as waste storage area.

The waste storage area(s) are controlled by designated Responsible Person who has the following duties:

- Ensuring that wastes are being collected placed in the correct area.
- Ensuring all wastes are properly segregated, stored and labeled.
- Regular inspection of the area to ensure integrity of all waste storages.
- Security and cleanliness of the storage area.

During handling and storage of waste, incompatible wastes are separated. Flammable/Combustible substances must be kept separate from sources of ignition/oxidizing agents

9.0. PROGRAM EVALUATION

Site Engineer in coordination with HSE rep will evaluate the overall effectiveness of this procedure on two-monthly basis.

10.0. TRAINING:

HSE representative will arrange the training sessions to make the workers fully aware of this procedure.