

Version #	Approval Date	Effective Date	Next review date
V1	30-09-2022	03-10-2022	29-09-2023

Waste Management

Intent

To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials. To divert construction waste from landfill.

Goals

1. Reduce construction and demolition waste disposed to landfills and incineration facilities by recovering, reusing and recycling.
2. Recycle at least 95% (by weight) of the total construction & demolition waste on site.
3. Wastes are to be sorted out appropriately for all construction materials eg: gypsum, AAC blocks, MDF, cement bags, etc.
4. Dedicated area to be demarcated at site for collection of recyclable waste. Records to be maintained on a regular basis.
5. Construction Management Record and Waste Diversion Summary Table to be submitted to the client or client's representative on a regular basis that shall include:
 - Description of the type of waste
 - Waste recycled / deposited location
 - Quantity (weight)
 - Proofing documents (e.g., recycle facility certificate, receipts, photos...etc.)
6. Construction Waste reduction and sorting Guidelines to be referred.
7. Records of the total weight of the recycled construction waste, as well as whereabouts. Suggested salvage and recycle materials should include and is not limited to the followings:
 - Gypsum board
 - MDF
 - Wood materials
 - Metal
 - AAC blocks
 - Packaging materials: wrapping paper, cardboard boxes, plastic packaging, etc.
8. Regularly submit the photos as site report (bi-weekly)

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Waste Reduction Plan

1. During construction period, the contractors to haul trash and provide separate space on site for gypsum boards, cardboard, wood, metal, rubble, etc
2. The waste streams to be evaluated each week.
3. On site separation to be adopted.
4. Hazardous waste should be stored, transported and disposed of in compliance with all relevant regulations.
5. Hazardous waste should be kept separate from other waste and should only be handled by trained personnel.

Contractor's Construction Waste Management Plan

The construction waste management plan is to be implemented by all sub-contractors and to be monitored by Project Manager / Lead Contractor.

Construction Waste Management Plan will be discussed with the Contractors which include the following:

- The types of waste and their estimated quantities
- Timing of wastes generated
- Measures for reducing waste generation
- On site waste separation
- On-site and off-site material reuse
- Areas for wastes' storage
- Quantities of waste requiring off-site disposal
- Disposal outlets
- A list of materials to be reused or recycled with estimated quantities
- Methods of processing, storing and disposal of hazardous waste, if any
- Method of dealing with packaging material were established

Contamination Control

Hazardous waste to be separated, sorted and disposed as per the local regulations.

- Separate recyclable waste from other waste material, trash, and debris.
- Provide appropriately marked bins for controlling recyclable waste until they are removed from the project site. Include list of acceptable and unacceptable materials at each bin.
- Inspect bins for contamination and remove contaminated materials, if found.
- Source control – Storage and protection for materials such as paints, adhesives, sealants, primers, etc.
- Construction materials to be kept covered to prevent from dust and moisture.
- Stockpile processed materials on-site without intermixing with other materials. Place grade, and shape stockpile to drain surface water. Cover to prevent wind-blown dust.
- Store components off the ground and protect from the weather.
- Housekeeping – Protecting cement bags, electrical panels, HVAC equipment, protecting wood, electrical cable. Cleaning of indoor spaces before occupancy, cleaning of equipment's such s HVAC ducts, panels, etc.
- Disposal of wastes – Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste material from site. Do not allow waste materials that are to be disposed-off to accumulate on site.

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Evaluation Plan

The project manager/ LEAD contractor will develop, update, and post at the jobsite regular progress to date for achieving the project's waste recycling goal.

Conclusion

In conclusion, effective waste management and on-site waste monitoring are essential for any building project. The implementation of a comprehensive waste management plan, waste segregation, recycling, proper handling of hazardous waste, compliance with all applicable regulations, and documentation of all waste management activities will help to ensure a sustainable and environmentally friendly building project.

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