

# Standard Operating Procedure (SOP)

## Construction and Demolition Waste Management

**1. Purpose:** This Standard Operating Procedure (SOP) is meticulously designed to ensure effective construction and demolition waste management at all units of THDCIL, strictly adhering to the Construction and Demolition Waste Management Rules of 2016. The SOP provides a comprehensive framework for the responsibilities and procedures related to waste generation, collection, segregation, storage, transportation, and disposal of construction and demolition waste.

**2. Scope:** This SOP is applicable comprehensively to all Projects/Units/Offices of THDCIL.

### 3. Definitions:

- **Construction:** The process of erecting a building or built facility, including infrastructure and any alterations to these entities.
- **Construction and Demolition Waste:** Waste comprising building materials, debris, and rubble resulting from construction, remodelling, repair, and demolition of any civil structure.
- **De-construction:** Planned selective demolition that maximizes salvage, re-use, and recycling of the demolished structure.
- **Demolition:** Breaking down or tearing down buildings and other structures manually, using mechanical force, or by implosion using explosives.

### 4. Duties of Waste Generators( THDCIL):

- Every waste generator is responsible for the collection, segregation, and storage of construction and demolition waste as directed or notified by the concerned local authority in accordance with the rules.
- Waste generators must ensure that other waste, such as solid waste, is not mixed with construction and demolition waste and is stored and disposed of separately.
- Waste generators generating more than 20 tons or 300 tons per project in a month must segregate the waste into four streams: concrete, soil, steel, wood and plastics, bricks and mortar. They must submit a waste management plan and obtain appropriate approvals from the local authority before commencing construction or demolition work and keep the concerned authorities informed throughout the project.

### 5. Duties of Service Providers and Contractors:

- Service providers shall prepare a comprehensive waste management plan covering segregation, storage, collection, reuse, recycling, transportation, and disposal of construction and demolition waste within their jurisdiction within six months from the date of notification of these rules.

- Service providers must remove all construction and demolition waste and clean the area daily, if possible, or as per a reasonable timeframe in consultation with the concerned local authority.
- In case service providers lack logistics support to carry out waste management activities, they must tie up with authorized agencies for removal of construction and demolition waste and pay relevant charges as notified by the local authority.

#### **6. Dust Mitigation Measures during Transportation and Storage:**

- Transport routes for carrying construction material and C&D waste should be identified to avoid residential, institutional, and hospital areas.
- Material easily windborne must be covered during transportation using materials like jute, tarpaulin, or plastic sheets.
- Trucks/lorries should not be overloaded to prevent spillage during transportation.
- Storage areas for C&D waste and construction material should be demarcated and barricaded to minimize dust dispersal.
- Construction material and C&D waste should be stored and transported to reduce dust emissions, such as using water sprinklers or covering materials.

#### **7. Training and Awareness:**

THDCIL shall conduct regular training and awareness programs for employees and contractors involved in construction and demolition activities to ensure the proper implementation of this SOP and promote sustainable waste management practices.

#### **8. Compliance and Monitoring:**

THDCIL will diligently monitor compliance with this SOP and conduct periodic audits to ensure that all units adhere to the Construction and Demolition Waste Management Rules of 2016. Non-compliance may lead to appropriate disciplinary actions or penalties.

#### **9. Disposal of Construction and Demolition Waste:**

- THDCIL units shall ensure that the disposal of construction and demolition waste is carried out strictly in accordance with the Construction and Demolition Waste Management Rules of 2016 and any other applicable regulations.
- All waste disposal sites should be selected, designed, and maintained to prevent environmental pollution and should be adequately lined and covered to prevent dust emissions and leachate.

#### **10. Reporting and Record-Keeping:**

- THDCIL units must maintain accurate records of construction and demolition waste generation, segregation, collection, transportation, and disposal.
- Regular reporting on waste management activities should be submitted to the concerned local authorities as per the prescribed formats and timelines.

### 11. Emergency Response:

- THDCIL units shall establish emergency response procedures for incidents related to construction and demolition waste management, including spillage, accidents, and non-compliance with regulations.
- Employees and contractors should be trained on emergency response protocols to ensure swift and effective action in case of emergencies.

### 12. Best Practices:

- THDCIL units are encouraged to adopt best practices for construction and demolition waste management, such as maximizing recycling and reusing materials and promoting eco-friendly construction techniques.

13. **Review and Revision:** This SoP shall be reviewed annually or as required to ensure its effectiveness and alignment with environmental regulations.

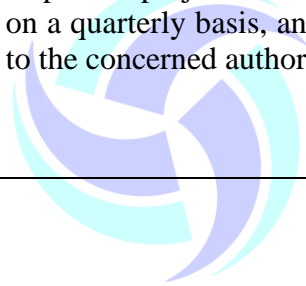
### 14. Continuous Improvement:

- THDCIL shall continually assess and improve its construction and demolition waste management practices to minimize environmental impact and promote sustainability.

### Appendix: Responsibilities and Timeline

Steps	Responsibility	Concerned Department	Target Date
01	Send a reminder letter to the project site to provide the information.	Corporate Environment Department: THDCIL-Nodal Department	Next working day of the succeeding month of the reporting quarter
02	Collect information in consultation with HR&A/ Services / Store/ any other relevant department/ (as applicable).	Environment Department: Project-Nodal Department	Within 7 days

03	Collect information from respective departments at the project site and provide the waste data to the Project Nodal department i.e. Environment Deptt-Project on/ Project Nodal Department on/before the 7 <sup>th</sup> date of the succeeding month of the reporting quarter.	HR/ Services department	
04	Provide the waste data in the Excel sheet to Corporate Nodal Department.	Environment Department: Project-Nodal Department	On/before 15th date of succeeding month of the reporting quarter.
05	Collect and analyze data received from respective project nodal officers, manage data on a quarterly basis, and appraise waste data to the concerned authority.	Corporate Environment Department: THDCIL-Nodal Department	On quarterly/annual (FY) basis



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