Standard Operating Procedure for Management of Construction & Demolition Waste in Abu Dhabi Emirate

CWM.SOP.PR/07
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1. **Purpose**

The Center of Waste Management, Abu Dhabi (CWM) - Tadweer has developed this Standard Operating Procedure (SOP) to properly identify and manage the construction and demolition waste stream generated from the Emirate of Abu Dhabi.

This Procedure sets forth the process and requirements for the collection, transportation and recycling of C&D Waste in the Emirate of Abu Dhabi. This document outlines the responsibilities and requirements set by CWM-Tadweer for the WPs (Contractors), Transporters (WTs) and Recycling facilities within Emirate of Abu Dhabi. The primary objectives of this Procedure can be summarized as follows:

1. **For Waste Producers:** Set the framework and formalize the process for management of C&D waste in Emirate of Abu Dhabi as follows;
   a) Construction: Issuance of No Objection Certificate (NOC) for contractors to acquire construction permits or obtain Construction Completion Certificate from the Municipalities of the Emirate of Abu Dhabi;
   b) Demolition: Issuance of NOC for contractors to acquire demolition permits from the Municipalities of the Emirate of Abu Dhabi; and
   c) Inspection: Random Inspection of contractors’ C&D waste management systems to ensure proper on site waste management schemes are implemented.

2. **For Waste Transporters:** Ensure safe, effective and efficient collection and transportation systems:
   a) Issuance of Licenses for new and/or addition for transportation of “Construction and Demolition Waste” activity to waste transporters;
   b) Inspection of waste transporters fleets to ensure compliance with CWM-Tadweer requirements.

3. **For C&D Waste Recycling/Treatment:** Provide the necessary recycling/treatment facilities to handle C&D waste generated in Emirate of Abu Dhabi following best applicable international practices.

4. **Monitoring:** monitoring and prevention of illegal dumping of C&D waste to ensure that UAE Federal Laws and CWM-Tadweer’s requirements are followed.

2. **Scope**

This procedure applies to all C&D WPs (Owners/Contractors) irrespective of their size (number of labor, size of projects, etc.) or quantity of the generated waste at all levels, including collection, transportation and recycling of C&D waste within the Emirate of Abu Dhabi.
The scope comprises the roles / responsibilities, technical, permitting requirements as well as violations & fines for the three major stakeholders in that sector, namely:

1. Waste producers (Owners/Contractors)
2. CWM-Tadweer’s licensed waste transporters; and
3. CWM-Tadweer’s licensed Recycling/Treatment facilities inside Emirate of Abu Dhabi.

3. Definitions

**Tadweer (CWM)** - Centre of Waste Management for managing waste in the Emirate of Abu Dhabi as established under Decree No 17 of 2008 establishing the Centre of Waste Management – Abu Dhabi

**Construction and Demolition Waste** - Construction and demolition (C&D) materials consist of the debris generated during the construction, renovation, and demolition of buildings, roads, and bridges. C&D materials often contain bulky, heavy materials, such as concrete, wood, metals, glass, and salvaged building components.

**Waste Producers** - This includes anyone whose activities produce waste (original waste producer) or anyone who carries out pre-processing, mixing or other operations resulting in a change in the nature or composition of this waste. C&D waste producers subject to this procedure are detailed below:

- **Group A - WPs:** Main Contractors involved in constructing or demolishing projects that with gross floor area greater than 20,000 m², Hotels and/or Mosques.
- **Group B - WPs:** Main Contractors that are involved in constructing or demolishing projects with gross floor area less than 20,000 m².

**Waste Transporters** - A waste transporter is defined as any person or entity engaged in the off-site transportation of waste within the Emirate of Abu Dhabi. Off-site transportation of waste includes shipments from a waste generator’s facility property to another facility for treatment, storage, or disposal.

**C&D Approved Facilities** - It is defined as the approved Tadweer facility for receiving and managing Construction and Demolition Waste.

**Source Segregation** - Sorting the recovered materials into specific material types with no or a minimum amount of contamination on site where C&D waste is generated.

**Time-Based Separation** - Collecting waste during each phase of construction or demolition which results in primarily one major type of recovered material. The material is removed before it becomes mixed with the material from the next phase of construction.
4. Requirements for Obtaining NOC for all Construction & Demolition Projects

CWM-Tadweer issues NOCs as part of the requirement to obtain the permit for construction/demolition to developers or companies involved in Construction and / or Demolition Projects from the Municipalities of the Emirate of Abu Dhabi. These NOCs shall be awarded based on successfully implementing the necessary measures to properly manage C&D waste onsite/offsite in line with Emirate of Abu Dhabi standards and regulations, and submission of supporting documentation to prove this. This shall cover the construction, demolition, and commissioning phases of the project.

4.1 Types of NOCs

CWM-Tadweer will issue three different types of NOCs as follows:

1. **Pre-Construction NOC**: This NOC is required for new construction projects prior to construction commencement.

2. **Construction Completion NOC**: This NOC is required for projects that were completed in relation to the Municipality of Abu Dhabi’s requirements for “Building Completion Certificate”¹

3. **Demolition NOC**: This NOC is required to be obtained prior to demolition of any building or villa in relation to the Municipality of Abu Dhabi’s requirements for “Building Demolition Permit”²

4.2 Why is it required?

Federal Environmental Law 24/1999 requires that all projects or establishments obtain a permit (i.e. NOC) prior to starting an activity.

As part of receiving this NOC, the project proponent must assess the waste impacts of their activities. The NOC of Construction Projects supports the requirements of the Emirate of Abu Dhabi Occupational Health and Safety Management System (OHSMS) System Framework (Decree 42 of 2009).

4.3 Categories of NOC for Construction and Demolition Projects

A project proponent must obtain a NOC before starting construction. Any new construction, demolition, as well as infrastructure project or any new addition to an existing project is subject

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to NOC requirements. A simplified procedure is foreseen for minor constructions or single buildings, whose gross floor area (GFA) doesn't exceed 20,000 square meters.

- **Group A:** If the project consists of gross floor area (GFA) **greater than 20,000 m²**, or for Hotels and Mosques, the proponent has to follow Urban Planning Council’s requirements. This Group will demonstrate that the General Contractor working collaboratively with all sub-contractors and specialty sub-contractors (demolition), should develop a Construction and Demolition Waste Management Plan (CDWMP) prior to the start of the construction and demolition activities as per the requirements of this guideline.

- **Group B:** If the project consists of gross floor area (GFA) **less than 20,000 m²**, the proponent has to follow Abu Dhabi Municipality’s requirements. This group will have to submit a waste management form showing the estimated waste quantities that will be generated during construction or demolition phase as per the requirement of this guideline (Annexure 3).

### 4.4 Waste Producers (Owners/Contractors)

Project Owners/contractors are required to obtain NOCs at 3 different stages of their project life cycle:
- a) Pre – Demolition;
- b) Pre – Construction; and
- c) Construction Completion

To obtain the NOC for different stages, the following main documents as stipulated in the table below are required to be submitted. The process for obtaining the different NOCs are further explained and detailed in following sections.

**Table 4-1 Submittal Requirements for each type of NOC**

<table>
<thead>
<tr>
<th>WP’s Classification</th>
<th>Project Type</th>
<th>NOC Type</th>
<th>Group A ( &gt; 20,000 m²)</th>
<th>Group B ( &lt; 20,000 m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Demolition</td>
<td>Pre- Demolition</td>
<td>1- CDWM – Plan</td>
<td>1- CDWM – Form</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1- Admin requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2- Consultant Asbestos Declaration Form / Tadweer inspection</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3- Confirm to Bolisaty Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4- Municipality NOC application</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5- Pest Control Contract</td>
<td></td>
</tr>
</tbody>
</table>
4.4.1 Demolition NOC

As per the requirements presented in Table 4-1 above, further detailed description is as follows:
1. C&DWM Plan/Form as per the requirement of this procedure depending on the size and type of the project;
2. Completion and submission of Tadweer’s application form to Customer Service;
3. A declaration form issued by the project’s consultant showing evidence of the existence or absence of asbestos in the building in addition to Tadweer official inspection form;
4. Compliance to Bolisaty and registration on E-Manifest System;
5. Pest and Termite control contract with approved ESP.

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For demolition projects, a mandatory inspection is done by Tadweer to inspect and verify the presence or absence of Asbestos in the buildings prior to approval or issuance of NOC. The results of the inspection impact the additional requirements for contractors in case Asbestos existence is confirmed, please refer to Tadweer website for the Technical guideline relating to proper Asbestos Management at the following link:


4.4.2 Pre-Construction NOC

As per the requirements presented in Table 4-1 above, further detailed description is as follows:
1. CDWM Plan / Form as per the requirement of this procedure depending on the size and type of the project;
2. Completion and submission of Tadweer’s application form to Customer Service⁴;
3. Compliance to Bolisaty and registration on E-Manifest System;
4. Pest and Termite control contract with approved ESP

Figure 4-2 below illustrates the process followed for obtaining a pre-construction NOC for C&D projects

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⁴ Tadweer Licensing and Tariff Department Website – Applications (http://licensing.tadweer.ae/en/ServiceGuide/Pages/Applications.aspx)
4.4.3 Construction Completion NOC

As per the requirements presented in Table 4-1 above, further detailed description is as follows:

1. CDWM Plan / Form as per the requirement of this procedure depending on the size and type of the project;
2. Compliance to Bolisaty and registration on E-Manifest System;
3. Municipality NOC application

Figure 4-3 The Mechanism of issuing construction completion NOC for Construction projects

5. General Requirements for Waste Producers, Transporter & Recyclers

The requirements of the key stakeholders involved in the Construction and demolition sector are presented below.

5.1 Waste Producers (Owners/Contractors)

C&D Waste Producers are considered as the entities producing C&D waste due to their operational activities. A waste producer will be held liable for the C&D waste that will be generated within his premises. Section 4 highlights how the owners/contractors shall be classified when requesting NOC from CWM-Tadweer. The categorizations of the main
contractors have been developed according to Urban Planning Council and Abu Dhabi Municipality definition for project categories. Waste Producers shall commit to the following:

- Developing and Implementing the Construction and Demolition Waste Management Plan OR Form (CDWMP/ Form) as per the requirements detailed in the following section (complete onsite segregation of C&D waste and maximum recycling)

- The waste producer shall segregate C & D waste from all of the other waste streams such as Municipal Solid Waste (general household waste, food waste, plastics), waste tyres, green waste, hazardous wastes (empty paint cans), cables, plastic sheets and cement bags, etc. and ensure that the Waste Transporter contracted shall not mix any other waste stream with the C & D waste;

- C&D waste should be segregated as per EAD approved waste classification (Concrete Waste, Styrofoam, Asphalt paving, Gypsum board /Plasterboard, Ceramics, concrete blocks and excavated material)

- Also the waste producer shall remove asbestos as per Standard operating procedure (SOP) for Licensing of Asbestos and Asbestos containing Materials Service Providers in the Emirate of Abu Dhabi, and other recyclable material before demolition of any structure / building;

- Contracting with CWM-Tadweer’s permitted Waste Transporter for waste hauling \(^5\)

- Registering and fully complying with Bolisaty system.

### 5.1.1 Preparation and Submission of the CDWMP

Tadweer shall ensure that all of the NOC given for construction and demolition projects contractors have valid CDWMP or forms developed by contractors on their own or via a third party (consultants). All contractors shall be responsible for the plans, which must be submitted to Tadweer for approval prior to project commencing. The CDWMP shall adopt the contractor’s method statement; and shall include the information provided within this procedure. Pearl rating system and municipalities’ requirements in addition to all legal and other requirements relating to waste management shall be reviewed by contractors and are considered an integral part when preparing the management plan in addition to this document.

When the CDWMP or form is complete, it must be submitted to Tadweer for approval prior to the scheduled beginning of the project. This shall be done in both paper and electronic format. As stated in Article 4 of Law 24/1999, “no project or establishment shall start an activity before obtaining the license aforementioned in the previous article.” A No

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\(^5\) Tadweer Licensing and Tariff Department Website – Companies Directory (http://licensing.tadweer.ae/en/Pages/default.aspx)
Objection Certificate (NOC) issued from Tadweer shall be the legal document issued by Tadweer that allows contractors to conclude all other related construction and/or demolition permits to begin. All Construction and/or Demolition projects waste management activities shall be monitored by Tadweer through random inspection visits. Tadweer shall have the right to conduct random inspections to verify that the conditions stipulated in the approved plans are being carried out properly. Failure to comply with the requirements outlined within the CDWMP may result in the NOC being revoked. Where other formats are used, the content of each CDWMP must include, at a minimum, all of the sections listed below.

### 5.1.2 Category A (Full CDWMP)

Table 5-1 illustrates the recommended CDWMP Structure and format which shall be adopted by all Category A projects’ contractors when developing their own project plans via an approved consultant. The plan shall be comprehensive and informative and shall be considered as an active and live document that needs to be maintained regularly on an annual basis. If the project duration is more than 1 year, an annual report shall be submitted to Tadweer summarizing waste management progress in order to qualify for obtaining the construction completion certificate later on once the project comes to a conclusion.

Annexure 5 gives a more detailed guideline on the key information required in each of the sections highlighted in Table 5-1 below.

**Table 5-1: Recommended CDWMP Structure**

<table>
<thead>
<tr>
<th>Section</th>
<th>Name</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>Management Commitment &amp; Project Information</td>
<td>- Management Commitment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Project Proponent Information</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Project Description</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Site layout</td>
</tr>
<tr>
<td>Chapter 2</td>
<td>Waste Identification and Material Management</td>
<td>- Materials Used</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Estimated waste generation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Assumptions for estimate</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>Performance Goals</td>
<td>- Project Recycling Goals</td>
</tr>
<tr>
<td>Chapter 4</td>
<td>Implementation Considerations</td>
<td>- Site Storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Handling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Transportation</td>
</tr>
<tr>
<td>Chapter 5</td>
<td>Roles and Responsibilities</td>
<td>- Project Director/Construction Manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Waste Management Champion</td>
</tr>
</tbody>
</table>
5.1.3 Category B Projects (Simplified CDWM Form)

A simplified form for developing a proper construction and/or demolition waste management plan is provided in Annexure 3 and has been developed to help contractors estimate their waste generation and set their recycling rates in a much easier way. This form can be downloaded from Tadweer Site at http://licensing.tadweer.ae/en/Pages/default.aspx. These sheets are the main requirement for construction and demolition projects within category B as defined earlier in Section 4. The form is comprised of 5 main sections as follows:

- **Section I** – Commitment: it is required that project top management shall provide commitment as highlighted in the form

- **Section II** – Project information: Sheet A provides an overview of the project type and key stakeholders involved

- **Section III** – Waste Identification and Categorization: Sheet B allows the contractor to identify and quantify potential waste streams generated from project

- **Section IV** – Waste Management and Disposal Option: Sheet C – shall be used by contractors to develop their work procedures matching their waste streams estimates to their transportation requirements and disposal methods

- **Section V** – Plan Monitoring: Sheet D – shall summarize key waste data and their methods of recycling, disposal and how the contractor is achieving his set targets.

5.1.4 Review of the CDWMP

Following submission of the CDWMP or form, Tadweer Licensing and Tariff officials will review the plan to verify that all chapters of the plan are complete and that it meets all of the stipulated requirements. This evaluation ensures that the CDWMP or form adheres to this guidance document and provides sufficient detail. Tadweer may seek clarification or revisions to the CDWMP from the contractor of the proposed project. Following approval of the CDWMP, Tadweer will issue an NOC for work progression so that contractor can conclude their construction permit and project activities can commence at the project site.
5.2 Waste Transporters (WTs)

CWM-Tadweer’s WTs shall commit to the following:

1. Shall have a valid commercial license issued by DED for the collection and transportation of C&D waste.
2. Shall have a valid permit issued by CWM-Tadweer for the collection and transportation of “Recyclables – Construction and Demolition”, following the submission of CWM-Tadweer application;
3. Waste Transporter should provide Two waste collection bins as a minimum at the waste producer’s construction site if applicable. The bin should be durable and tough made to withstand the rough use by labours during operation and transportation. The minimum required bin size is 7m³.
4. C&D waste (as per Annexure 4) shall not be mixed with any other type of waste during its transportation;
5. Drivers must have training certificates for defensive driving & emergency preparedness training (to be submitted);
6. Vehicles are licensed to transport C&D waste following Traffic Department requirements and CWM-Tadweer’s Technical Specifications and permitting requirements;
7. At all times during operations, vehicles shall be properly maintained, kept clean and in good working condition following The General Directorate of Abu Dhabi Police’s Drivers & Vehicles Licensing department requirements and CWM-Tadweer’s Technical Specifications;
8. Ensure the proper containment of C&D waste during its transportation; i.e. bins should be in a good structural status (neither broken, nor deformed) and covered at all times during transportation to avoid friable material being blown away.
9. Ensure proper manifestation before collection and transportation from either Group ‘A’ and/or Group ‘B’ waste producers premises;
10. Prior to any transportation, a valid contract with Group ‘A’ and/or ‘B’ waste producers shall be in place with the following contractual scope:
   a. Collection,
   b. Transportation is only allowed to Tadweer’s licensed C&D recycling / treatment facility in Emirate of Abu Dhabi (please refer to Annexure 1), and
   c. Manifest completion process in-line with CWM-Tadweer’s requirements and handing back the completed manifest to the waste producer;
5.3 C&D Waste Recycling/Treatment Facilities

Construction and demolition waste recycling/treatment facilities are required to recycle construction and demolition waste, which would otherwise be dumped in landfills. The focus then lies on reducing the carbon footprint and improving environmental management. This will consequently lead to a lesser load on virgin resources, providing the construction market with high quality recycled products.

In order to admit any C&D waste material to these facilities, Tadweer has set certain criteria for acceptance of such wastes and which are detailed in Annexure 4.

The C&D waste recycling facilities shall comply with Abu Dhabi Certification Scheme for Recycled Crushed Aggregate and are mandated to be certified under Abu Dhabi certification scheme for recycled crushed aggregate within 12 months of the issuance of the first Waste Permit.

6. C&D Environmental Service Providers Licensing Requirements

6.1 Waste Transporters

6.1.1 Company Licensing

At the time of release of these Procedures the transport activity was initially referred as “Cement and Sand Sweepings and Building Wastes Collection”, however Tadweer is currently in the process of issuing a new criterion regarding the transportation of C&D Waste. Once issued, C&D waste Transporters will have to follow the new classification namely “Collection and Transportation – Construction and Demolition Waste”.

Refer to Department of Economic Development (DED) for further information on company commercial licensing.

6.1.2 First Issuance or Renewal of Activity

After enrolling the company in DED, the next step will be to register the activity within Tadweer. Waste transporters (WTs) shall submit the following two sets of required documents in order to obtain Tadweer’s permit to add C&D waste collection and transportation to their approved activities:

1. Administrative Requirements:
   - Copy of Trade License/commercial license
   - Copy of Emirates ID and authorized signature /Power of Attorney
   - Filled application form for WT including their list of approved C&D waste transport vehicles issued by Traffic Department
• Copy of Vehicle Registration / Ownership;
• Certificate from the Traffic Department to ensure that the vehicle is registered

2. Technical Requirements:
• All vehicles (owned) must be equipped with GPS as per Tadweer approved system;
• Provide a parking arrangement for companies that own 5 or more waste transporting vehicles.

Figure 6-1 Mechanism of adding the activity of C&D Waste collection and transportation

6.2 Approved / Recycling facilities

All C&D waste approved facilities shall be visited by Tadweer on regular basis to ensure that Tadweer’s standards are maintained. The approved list shall be revised accordingly by Tadweer and published so that all WPs can have legitimate outlets and channels to properly dispose their C&D waste ending up within the recycling chain. Refer to Annexure 1 for the current list of approved C&D approved facilities in the Emirate of Abu Dhabi.

6.3 License Fees
Please refer to the approved fee structure for applicable fees for the C&D waste management.
7. Inspections & Violations

7.1 Inspection Requirements

Inspection shall be performed at all stages of C&D waste management process, covering all involved entities namely waste producers, transporters (WTs) and recycling facilities, to ensure compliance with CWM-Tadweer’s legal requirements, SoPs and Technical guidelines, other regulatory instruments, this procedure and other requirements in order to foster good management practices. Tadweer reserves the right to carry out inspections at any time to ensure compliance with CWM-Tadweer’s requirements.

Inspection of the various entities will be carried out following a thoroughly developed inspection checklist in addition to inspection of facilities as per checklist attached in Annexure 2.

The frequency of inspection is as outlined in Table 7-1 below. However, in case of any unforeseen events, CWM-Tadweer reserves the right to inspect entities as many times as needed to ensure that the Regulator’s requirements are fully met.

<table>
<thead>
<tr>
<th>Type of entity</th>
<th>Inspection frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Producers (WPs)</td>
<td>if required</td>
</tr>
<tr>
<td>Waste Transporters (WTs)</td>
<td>At least once a year</td>
</tr>
<tr>
<td>Recycling Facilities</td>
<td>At least twice a year</td>
</tr>
</tbody>
</table>

7.2 Violations & Fines

1. Non-compliance to any requirements of this procedure shall be considered as a violation of this procedure and liable for enforcement / judicial action. Additionally, any of the following actions shall also be considered as violation: Noncompliance with UAE Federal regulatory requirements, Abu Dhabi regulatory requirements including EAD and CWM - Tadweer requirements;

2. Segregated C & D waste is to be delivered to the C & D recycling facility (Annexure 1), which shall be the responsibility of the waste producers as well as the waste transporter. C & D waste mixed with other waste streams will not be accepted by the C & D recycling facility and as a penalty for mixing waste streams, a fee of AED 20/truck would be charged;

3. Disposal of C&D Waste in any place other than the designated recycling facility or controlled disposal site shall be considered as illegal dumping;

All entities including waste producers, transporters and recycling / treatment / disposal facilities shall be legally obliged to comply to the requirements and failing to do so shall be liable for enforcement / judicial action as per the Permitting and enforcement regulation issued by EAD, which is published on Tadweer website at (http://licensing.tadweer.ae/ar/Pages/default.aspx)

Any Non-Compliance identified will lead to legal actions including but not limited to suspension or revoking of any issued permits and / or NOCs.

8. References

2. Law No (21) for the year 2005 on waste management in the Emirate of Abu Dhabi.
5. Decree No 17 of 2008 establishing the Centre of Waste Management – Abu Dhabi.
8. Waste Planning Policy (EAD-EQ-PR-P-02)
9. Licensing and Enforcement Policy for Waste Sector (EAD-EQ-PR-P-03)
10. Waste Collection, Segregation, Transfer and Tracking Policy (EAD-EQ-PR-P-04)
14. Abu Dhabi Certification Scheme for Recycled Concrete Aggregate– Assessment and Surveillance Plan – Abu Dhabi Quality and Conformity Council - 2013

9. Document Control
10. Annexures

Annexure 1: Approved C & D Waste Recycling Facilities

Annexure 2: Inspection Checklist for C&D Waste Transporters

Annexure 3: C&D projects NOC application Forms

Annexure 4: Waste acceptance criteria at Tadweer C&D Facilities

Annexure 5: CDWMP Plan Development Guideline Category A Projects
Annexure 1: Approved C & D Waste Recycling Facilities

Tadweer Approved C&D Receiving Facilities

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Facility Name</th>
<th>Contact</th>
<th>Region</th>
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<td>AL DHAFFA R.CYCLING INDUSTRIES</td>
<td>AL DHAFFA R.CYCLING INDUSTRIES</td>
<td>Abu Dhabi and Al Dhafra Region</td>
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<td></td>
<td>AL DHAFFA R.CYCLING INDUSTRIES</td>
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# Annexure 2: Inspection Checklist for C&D Waste Transporters

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<th>S/N</th>
<th>Checklist item</th>
<th>Compliance / Comments</th>
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</thead>
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<td>Valid Tadweer License</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>List of waste transporter vehicles having valid registration cards</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Photographs of each side for each vehicle</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>In case vehicle(s) are rented, copy of valid rental contract shall be presented</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Installation schedule (in case GPS not installed)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Is Transport vehicles equipped with all safety equipment such as fire extinguishers and first aid kit?</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Is appropriate Personal Protective Equipment (PPE) provided?</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Review the arrangement of trucks and skips</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>C&amp;D Waste Transporters Vehicles requirements</strong></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>C&amp;D waste transportation vehicle have clear write up of the company name, phone number and emergency number</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>GPS installed</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Vehicles are in good working conditions (clean, no leakage, etc.)</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Vehicles have valid stickers and contain signs</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Vehicles have maintenance records</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Arrangements for vehicles and skips parking in case more than 5</td>
<td></td>
</tr>
</tbody>
</table>

---

6 This item is under the full responsibility of Traffic Department
Annexure 3: C&D projects NOC application Forms

- Construction & Demolition Waste Management Form (For Pre-Construction Projects)
- Construction & Demolition Waste Management Form (For Construction Completion Projects)
- Construction & Demolition Waste Management Form (For Demolition Projects)

Tadweer Licensing and Tariff Department Website – Applications
(http://licensing.tadweer.ae/en/ServiceGuide/Pages/Applications.aspx)
Waste Management form Requirement Checklist

Section I - Project Information

Fill in **Sheet A** to include all relevant project information.

Section II - Plan Monitoring

In order to have an effective C&D WMP, it is required to maintain a reporting mechanism for all waste management activities onsite as per **Sheet D**.

**Sheet D** shall be filled for construction completion certificates only.

From obtaining the status of disposal, it is mandatory to maintain a report of all waste management activities as per the plan and on completion, the report shall be submitted to the competent authority.
# Construction & Demolition Waste Management Form
(For Completion Projects)

**Date Prepared:**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Pre-Construction</th>
<th>Construction Completion</th>
<th>Road Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demolition</td>
<td>Yes</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Yes</td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Asbestos:**
- if yes specify the quantity: 

<table>
<thead>
<tr>
<th>Project Age (for Demolition and Maintenance Projects):</th>
</tr>
</thead>
<tbody>
<tr>
<td>نبذة عن المشروع:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Owner</th>
<th>معلومات المشروع</th>
<th>Project Consultant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Name</td>
<td>اسم كامل</td>
<td>Full Name</td>
</tr>
<tr>
<td>Address</td>
<td>الالوان</td>
<td>Address</td>
</tr>
<tr>
<td>Landline</td>
<td>هاتف</td>
<td>Landline</td>
</tr>
<tr>
<td>Fax</td>
<td>الفاكس</td>
<td>Fax</td>
</tr>
<tr>
<td>Mobile</td>
<td>الموبايل</td>
<td>Mobile</td>
</tr>
<tr>
<td>Email</td>
<td>البريد الإلكتروني</td>
<td>Email</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental Service Provider</th>
<th>معلومات المشروع</th>
<th>Project Contractor</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP Name</td>
<td>اسم كامل</td>
<td>Contractor</td>
</tr>
<tr>
<td>Trade Licesne No</td>
<td>الالوان</td>
<td>Trade Licesne No.</td>
</tr>
<tr>
<td>Landline</td>
<td>هاتف</td>
<td>Landline</td>
</tr>
<tr>
<td>Fax</td>
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<td>Fax</td>
</tr>
<tr>
<td>Mobile</td>
<td>الموبايل</td>
<td>Mobile</td>
</tr>
<tr>
<td>Email</td>
<td>البريد الإلكتروني</td>
<td>Email</td>
</tr>
</tbody>
</table>

## Declaration

I, the undersigned, being the project owner/consultant, hereby declare that all information providing in this application and in the attached documents are true and accurate. I will abide by all relevant regulations and guidelines to avoid admin and legal actions.

- **GFA (Gross Floor Area)**

---

**Stamp**

---

**Version No.**

---

**Issue date**

---

**تاريخ التحضير:**

---

**العهد**

أنا الموقع أدناه يصفني مالك/مستشار المشروع، أتعهد بأن جميع المعلومات التي قدمت في هذا النظام، وفي المستندات المرفقة صحيحة ومفيدة. وسأكون مسؤول عن صحة المعلومات ومتالم بجميع الإجراءات الإدارية والقانونية في حالة وضوح اتفاقيات.

---

**Email:**

---

**البريد الإلكتروني:**

---

**fax:**

---

**الفاكس:**

---

**Mobile:**

---

**الموبايل:**

---

**Landline:**

---

**الهاتف:**

---

**Address:**

---

**العنوان:**

---

**Full Name:**

---

**اسم كامل:**

---

**Contractor:**

---

**المقاول:**

---

**Trade Licesne No.:**

---

**الترخيص التجاري:**

---

**Date Prepared:**

---

**تاريخ التحضير:**

---

**Stamp:**

---

**Version No.:**

---

**الرقم الإصدار:**

---

**Issue date:**

---

**تاريخ الإصدار:**

---

**Declaration:**

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## Construction & Demolition Waste Management Form
(For Completion Projects)

<table>
<thead>
<tr>
<th>No.</th>
<th>Waste Type</th>
<th>Total quantity of actual waste (tonnes) (A)</th>
<th>Total quantity of waste recovered (tonnes) (D=B+C)</th>
<th>Total quantity of waste % recovered (D/A X 100)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Concrete</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Metals</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>Masonary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Gypsum Board</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Cardboard / Paper</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>6</td>
<td>Plastics</td>
<td></td>
<td></td>
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<tr>
<td>7</td>
<td>Carpet and Pad</td>
<td></td>
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<tr>
<td>8</td>
<td>Insulation &amp; Roofing</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>Glass</td>
<td></td>
<td></td>
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<tr>
<td>10</td>
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<td></td>
<td></td>
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<tr>
<td>11</td>
<td>Furniture</td>
<td></td>
<td></td>
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<td>Rubber</td>
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<td>13</td>
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<tr>
<td>14</td>
<td>Piping</td>
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<td></td>
</tr>
<tr>
<td>15</td>
<td>other</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CONSTRUCTION & DEMOLITION WASTE PROGRESS MONITORING**

**Date Prepared:**

**ESTIMATED TOTAL WEIGHT OF WASTE**

**Version No.:**

**Issue date:**

**الموضوع:** نموذج إدارة نفايات مشاريع البناء و الهندسة

**تاريخ التحضير:**

**النوع:** نموذج د

**عنوان النفايات:**

**ESTIMATED TOTAL WEIGHT OF WASTE**

**Version No.:**

**Issue date:**
Waste Management form Requirement Checklist

**Section I - Project Information**

Fill in **Sheet A** to include all relevant project information.

**Section II - Commitment**

- A. Waste Management Policy for the project focusing on waste minimisation and preserving natural resources.
- B. Setting overall recycling rate for the project (not less than 30%)
- C. Identifying a Focal Point (WASTE MANAGEMENT COORDINATOR) for the project

**Section III - Waste Identification and Categorization**

Please refer to **Sheet B** and identify your potential waste stream. Sheet B provides a guidance on the most common types of wastes generated from C&D projects. Mention the basis of estimation and any relevant assumption and information.

**Section IV - Waste Management and Disposal Options**

1. Please provide a site layout diagram identifying the designated onsite area for waste collection, segregation and transport to offsite takers. This area is usually named the Waste Buffer Zone. It usually acts as the waste focusing point onsite where all waste gets collected, moved to this area, and stored for transportation to landfills or recyclers.
2. Use **Sheet C** to develop your work procedures matching your waste streams to their transportation requirements and disposal methods.


<table>
<thead>
<tr>
<th>Section</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Fill in <strong>Sheet A</strong> to include all relevant project information.</td>
</tr>
</tbody>
</table>
| II      | A. Waste Management Policy for the project focusing on waste minimisation and preserving natural resources.  
        | B. Setting overall recycling rate for the project (not less than 30%).  
        | C. Identifying a Focal Point (WASTE MANAGEMENT COORDINATOR) for the project. |
| III     | Please refer to **Sheet B** and identify your potential waste stream. Sheet B provides a guidance on the most common types of wastes generated from C&D projects. Mention the basis of estimation and any relevant assumption and information. |
| IV      | 1. Please provide a site layout diagram identifying the designated onsite area for waste collection, segregation and transport to offsite takers. This area is usually named the Waste Buffer Zone. It usually acts as the waste focusing point onsite where all waste gets collected, moved to this area, and stored for transportation to landfills or recyclers.  
        | 2. Use **Sheet C** to develop your work procedures matching your waste streams to their transportation requirements and disposal methods. |
## Declaration

I, the undersigned, being the project owner/consultant, hereby declare that all information providing in this application and in the attached documents are true and accurate. I will abide by all relevant regulations and guidelines to avoid admin and legal actions.

---

**Pre-Construction**

- Demolition [ ]
- Maintenance [ ]

**Construction Completion**

- Asbestos [ ]

**Road Works**

(if yes specify the quantity: [ ] )

**Project Information**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Demolition</th>
<th>Maintenance</th>
<th>Asbestos</th>
<th>Road Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Construction</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Construction Completion</td>
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<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Road Works</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

---

**Project Owner**

Full Name
Address
Landline
Fax
Mobile
Email

**Project Consultant**

Full Name
Address
Landline
Fax
Mobile
Email

**Project Contractor**

Contractor
Trade Licens No.
Landline
Fax
Mobile
Email

---

**Environmental Service Provider**

ESP Name
Trade Licens No.
Landline
Fax
Mobile
Email

---

**Project Scope and Description:**

The project scope and description should be detailed here.

---

**Sign and Stamp**

The form should be signed and stamped by all relevant parties as indicated.

---

**GFA (Gross Floor Area)**

- Construction & Demolition Waste Management Form
- (For Pre-Construction Projects)
### Construction & Demolition Waste Management Form (For Pre-Construction Projects)

<table>
<thead>
<tr>
<th>No.</th>
<th>Waste Type</th>
<th>Estimated Quantities of Materials Purchased/Generated (A)</th>
<th>Estimated Generated Waste from (A) (in%)</th>
<th>Total Estimated Quantity of Waste Generated (C = A x B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Concrete</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Metals</td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>Masonary</td>
<td></td>
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<tr>
<td>4</td>
<td>Gypsum Board</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>5</td>
<td>Cardboard / Paper</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Plastics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Carpet and Pad</td>
<td></td>
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<tr>
<td>8</td>
<td>Insulation &amp; Roofing</td>
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<tr>
<td>9</td>
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<tr>
<td>10</td>
<td>Timber</td>
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<td></td>
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<tr>
<td>11</td>
<td>Bulky work</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>12</td>
<td>Rubber</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>13</td>
<td>Textiles</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>14</td>
<td>Piping</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ESTIMATED TOTAL WEIGHT OF WASTE**

الوزن الإجمالي للمخلفات

Construction and Demolition Waste Management Plan Template V1.0 - Tadweer
### Construction & Demolition Waste Management Form

(For Pre-Construction Projects)

**Date Prepared:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Waste Type</th>
<th>Total Est. quantity of waste (tonnes)</th>
<th>Est. amount of salvaged waste (tonnes)</th>
<th>Est. amount of recycled waste (tonnes)</th>
<th>Est. amount disposed to Landfill (tonnes)</th>
<th>Transportation and Disposal PROCEDURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Concrete</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Metals</td>
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<td>4</td>
<td>Gypsum Board</td>
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<tr>
<td>15</td>
<td>other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ESTIMATED TOTAL WEIGHT OF WASTE**

الوزن التقدير اللائاني للنفايات

**Construction and Demolition Waste Management Plan Template V1.0 - Tadweer**
# Waste Management Form Requirement Checklist

## Section I - Project Information

Fill in **Sheet A** to include all relevant project information.

## Section II - Commitment

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Waste Management Policy for the project focusing on waste minimisation and preserving natural resources</td>
<td>☐</td>
</tr>
<tr>
<td>B - Setting overall recycling rate for the project (<strong>not less than 30%</strong>)</td>
<td>☐</td>
</tr>
<tr>
<td>C - Identifying a Focal Point (WASTE MANAGEMENT COORDINATOR) for the project</td>
<td>☐</td>
</tr>
</tbody>
</table>

## Section III - Waste Identification and Categorization

Please refer to **Sheet B** and identify your potential waste stream. **Sheet B** provides guidance on the most common types of wastes generated from C&D projects. Mention the basis of estimation and any relevant assumption and information.

## Section IV - Waste Management and Disposal Options

1. Please provide a site layout diagram identifying the designated onsite area for waste collection, segregation and transport to offsite takers. This area is usually named the Waste Buffer Zone. It usually acts as the waste focusing point onsite where all waste is collected, moved to this area, and stored for transportation to landfills or recyclers.

2. Use **Sheet C** to develop your work procedures matching your waste streams to their transportation requirements and disposal methods.

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**GFA (Gross Floor Area)**
### Construction & Demolition Waste Management Form (For Demolition Projects)

<table>
<thead>
<tr>
<th>No.</th>
<th>Waste Type</th>
<th>(A) Estimated quantities of materials Recovered (based on BOQ)</th>
<th>(B) Estimated generated waste from (A) (in%)</th>
<th>TOTAL estimated quantity of waste generated ( C = A \times B )</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Concrete</td>
<td></td>
<td></td>
<td></td>
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<td>13</td>
<td>Textiles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Piping</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### ESTIMATED TOTAL WEIGHT OF WASTE

الرقم الإصدار (٠)
## Annexure 4: Waste acceptance criteria at Tadweer C&D Facilities

### Waste Acceptance Criteria At Tadweer C&D Facilities

<table>
<thead>
<tr>
<th>SER. No</th>
<th>MAIN SOURCE/TYPE</th>
<th>MATERIAL DESCRIPTION</th>
<th>ACCEPTED?</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>CONCRETE</td>
<td>READY MIX CONCRETE</td>
<td>YES</td>
<td>-</td>
</tr>
<tr>
<td>02</td>
<td>CONCRETE</td>
<td>CURBSTONE</td>
<td>YES</td>
<td>-</td>
</tr>
<tr>
<td>03</td>
<td>CONCRETE</td>
<td>DEMOLISHED</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>CONCRETE</td>
<td>LIGHT BRICK</td>
<td>NO</td>
<td>WHITE BRICKS DAMAGES RCA QUALITY</td>
</tr>
<tr>
<td>05</td>
<td>CONCRETE</td>
<td>CEMENT BRICK</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>CONCRETE</td>
<td>PRECAST</td>
<td>YES</td>
<td>NORMAL REINFORCING</td>
</tr>
<tr>
<td>07</td>
<td>CONCRETE</td>
<td>SCRAP</td>
<td>YES</td>
<td>FROM BATCHING PLANTS</td>
</tr>
<tr>
<td>08</td>
<td>FOOD</td>
<td>ALL TYPES</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>SEWAGE</td>
<td>ALL TYPES</td>
<td>NO</td>
<td>EVEN WITH CONCRETE PIPES/ MANHOLES/ CONCRETE TANKS</td>
</tr>
<tr>
<td>10</td>
<td>ASPHALT PAVEMENTS</td>
<td>ASPHALT WITH BASECOARSE AGGREGATES</td>
<td>YES</td>
<td>SCRAP</td>
</tr>
<tr>
<td>11</td>
<td>BASECOARSE LAYERS</td>
<td>WITH ASPHALT AND AGGREGATES</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>CONSTRUCTION WASTE</td>
<td>MIXED WITH FINES</td>
<td>YES</td>
<td>UP TO 30% FINES ONLY</td>
</tr>
<tr>
<td>13</td>
<td>HAZARDOUS MATERIAL</td>
<td>-</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>POLYSYRENE</td>
<td>-</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>LIME STONES</td>
<td>AND MATERIAL CONTAINS LIMSTONE</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>NATURAL ROCK (LARGE SIZE)</td>
<td>-</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>ROCK (SMALL OR CRUSHED)</td>
<td>-</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>WOOD MATERIAL</td>
<td>LARGELY MIXED WITH DEMOLISHED MATERIAL</td>
<td>NO</td>
<td>ACCEPTED AS RATIO IN DEMOLISHED MATERIAL</td>
</tr>
</tbody>
</table>

**NOTE 1:** ALL MATERIAL, IF HAVE SPECIAL MATERIAL, SHOULD BE CHECKED WITH C&D FACILITY

**NOTE 2:** GYPSUM MATERIAL, OR MATERIAL CONTAINS GYPSUM ARE NOT ACCEPTED AT THE C&D PLANT. HOWEVER, GENERATORS ARE ADVISED TO SEGREGATE AND TRANSPORT TO LOCATION AS ADVISED BY TADWEER.

**NOTE 3:** MATERIAL NOT MENTIONED ABOVE, SHOULD BE SEGREGATED AND SEND TO LANDFILL / OTHER RECYCLING FACILITIES AS APPLICABLE
Annexure 5: CDWMP Plan Development Guideline Category A Projects

This chapter gives guidance for all contractors and consultants when developing the project CDWMP. It illustrates the key sections required as per Tadweer recommended format and the key information that need to be accounted for the initial setup of the plan. This SOP is to help facilitate achievement of the targets set out in the Abu Dhabi Plan 2020. The Contractor shall structure his plan considering the following sections:

A4-1  Commitment and Project Information

The CDWMP Project information section shall include the following information as a minimum:

- Commitment of Top Management for Proper Waste Management and Environment Protection
- The Project Name;
- Management Plan version number and date of issuance;
- Signature of plan developer, reviewer, and person(s) in charge of approving such plan;
- Key Contact information including project owner; Consultant’s name, and contact information if applicable, and the contractor’s name and contact information,
- Project Description: The Project Description section of the QHSE MP should include information regarding the location, scope, overall project and planned activities, environmental baseline setup, key required permits and project schedule and key milestones.

A4-2  Waste Identification and Material Management

This section shall discuss the identification of potential waste streams and the proposed management options for each stream.

- Waste Identification: The contractor shall indicate anticipated types and quantities of construction waste generated by the Project, including estimated quantities and assumptions for estimates. The Contractor shall use detailed material estimates to reduce risk of unplanned and potentially wasteful cuts.
- Materials Management: Ensure optimum management of solid wastes via a materials management hierarchy the materials management hierarchy shall be: reduce, reuse, recycle and recover.
- Project Site layout: A construction site management plan should be created including: work areas, materials processing areas, materials storage and disposal areas, worker hand-washing and changing stations, first aid and medical information.
- Compile a list of the available recycling merchants and re-processors in surrounding area.

Recycling Incentives: Determine whether revenues, savings, and other incentives received for recycling waste materials would be kept by the Contractor or credited to the Client.
A4-3 Performance Goals

This chapter presents the platform for the contractor to set his recycling goals and to develop and understand the cost/revenue analysis associated with the waste management practices on site.

- Develop Performance Goals: Develop a waste management plan goals that results in end-of-project rates for reuse or recycling by weight as a minimum of the total waste generated by the work. The recycling programme could utilize one or a combination of any of the following common waste diversion strategies (Please refer to Glossary for definitions):
  - Source Separation
  - Time-Based Separation
  - Co-mingled or off-site Separation
  - On-site sales auctions and removal.

- Waste estimations & approach for management:
  - Total quantity of waste expected to be generated.
  - Include types of materials, total quantity of each sub-type of waste (Annexure 6 & 7)
  - Describe onsite C & D waste management approach
  - Estimated quantity of hazardous waste and management approach.

- Waste Reduction: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill, including quantity for each means of recovery, and handling and transportation procedures.
  - Salvaged Materials for Reuse, Sale or Donation
  - Estimated quantity of the C & D waste to be recycled
  - Land filled Materials
  - Handling Procedures

A4-4 Implementation Considerations

The contractor shall address the implementation requirements for the plan mainly the logistics arrangement and requirements that he shall follow on site as follows:

- Container Provisions: Provide containers for construction waste that is to be recycled clearly labelled as such with a list of acceptable and unacceptable materials. Provide containers for construction waste that is disposed in a landfill clearly labelled as such.

- Site Storage and handling: Position containers for recyclable and recoverable waste materials at a designated location on the Project Site. If materials are sorted on site, also provide a sorting area
(Waste Buffer Zone) and necessary storage containers. Address the method and frequency the contractor will conduct visual inspections of dumpsters and recycling bins to remove contaminants and how all recovered materials are going to be made safe for handling and storage.

- **Transportation:** discussion of the proposed transportation schedule to ensure that trucks hauling waste arrive at disposal facility during normal hours of operation. Waste shall not be stored at any location other than the site or disposal facilities.

### A4-5 Roles and Responsibilities

Ensuring there is a dedicated team to properly manage waste on site and accurately records all waste generation data and activities on site, this section shall document key roles and responsibilities for key team members involved in the waste management process on site:

- **The Contractor** key responsibilities: Arranging for adequate collection, and transportation to deliver the recovered materials to the approved recycling centre or processing facility. In addition to Maintain records accessible to Tadweer for verification of diversion of recovered waste materials.

- **Waste Management Coordinator:** schedule and conduct meetings to review the Construction and or Demolition Waste Management Plan. Discuss procedures, schedules, coordination and specific requirements for waste materials recycling and disposal.

### A4-6 Documentation and Quality Assurance

- **Reporting:** Ensure that evidence of recycling, and reuse of recovered materials is documented and that all waste arising and transfers on, off and around site are documented with a ‘cradle to cradle’ approach which means knowing the origin of each waste stream and tracking the waste all the way to the final usage of the waste whether it’s a reuse or a disposal facility. The following documents are required to be available on site as part of the management plan:

  - **Waste Management Summary Reports:** Provide delivery receipts for the recovered materials and waste materials sent to the permitted recycling facilities, or landfill with key information such as Name of firm hauling and accepting the recovered materials or waste, type of receiving facility, location of the facility, type of materials, net weight or volume, date of delivery, etc.

  - **Waste Reduction Progress Reports:** These reports shall include Total quantity of waste in tonnes, Material categories, both estimated and actual quantities of salvages, recycled and recovered waste as well as percentage of total weight.

  - **Waste Reduction Calculations:** Before request for final completion approval, submit calculated end-of-project rates for salvage, recycling, and disposal as a percentage of total waste generated.

  - **Records of Donations:** Indicate receipt and acceptance of salvageable waste donated
Records of Sales: Indicate receipt and acceptance of salvageable waste sold.

Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

Landfill Disposal Records: Indicate receipt and acceptance of waste by landfills facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

Reporting to Tadweer: All projects holding an NOC from Tadweer shall report on an annual basis (If the project span is more than a year) to Tadweer via a waste summary report or at the end of the project if the project span is less than a year with the final waste data and summary resulting from the executing of the project.

A4-7 Forms and Checklists

This section shall include the following as a minimum:

- All the forms that shall be used to record and calculate waste generation data including transportation and waste reduction calculations.

- Inspection checklists for waste buffer zone and waste handling and storage arrangements

- List of project nearby waste management facilities and recyclers