

- (f) **“Deputy Commissioner”** means the Deputy Commissioner of the District appointed by the State Government.
- (g) **“DUDA”** means District Urban Development Agency; a society registered under Society Registration Act 1860 under Department of Urban Development, Government of Arunachal Pradesh.
- (h) **“Demolition”** means breaking down or tearing down buildings and other structure either manually or using mechanical force (by various equipments) or by implosion using explosives.
- (i) **“Fine”** means penalty imposed on waste generators or operators of waste processing and disposal facilities under the bye-laws for non-compliance of the directions contained in these rules and/or bye- laws,
- (j) **“Local body”** means Urban Local Body with different nomenclature such as Municipal Council, Municipal Corporation, Town Panchayat, District Urban Development Agency notified by Government of Arunachal Pradesh from time to time.
- (k) **“MEO”** means Municipal Executive Officer of the Municipal Council appointed by the State Government.
- (l) **“Municipal Commissioner”** means the Municipal Commissioner of the Municipal Corporation appointed by the State Government.
- (m) **“Rules”** means Construction and Demolition Waste Management Rules, 2016.
- (n) **“User charge”** means a charge/fee imposed by the Local Bodies on the waste generator to cover full or part cost of providing solid waste collection, transportation, processing and disposal services.

4. Duties of waste generator.

- (a) Every waste generator shall prima-facial be responsible for collection, segregation in categories such as concrete, soil, steel, wood and plastic, bricks, mortar and others. Storage of construction and demolition waste generated, as notified by the Municipal Corporation/Municipal Council/Nagar Panchayat/ DUDA in consonance with byelaws.
- (b) The waste generator shall ensure that other waste (such as solid waste, E-waste, Bio-medical waste, Plastic waste) does not get mixed with this waste and is stored and disposed separately.
- (c) Waste generator who generate more than 20 tons or more in one day or 300 tons per project in a month shall segregate the waste in streams such as concrete, soil, steel, wood and plastic, bricks, mortar and submit the waste management plan and get appropriate approvals from the Local Authority before starting construction or demolition or remodeling works and keep Local Authority informed regarding the relevant activities from the planning stage to the implementation stage and this should be on project to project basis.
- (d) Every waste generator shall keep the construction and demolition waste within the premises or get the waste deposited at the collection centre so made by the Local Authority or handover to the authorized processing facilities of construction and demolition waste; and ensure that there is no littering or deposition of construction and demolition waste so as to prevent obstruction to the traffic or the public or drains or water channel.

- (e) The waste generators who intend to dispose of their waste in the facilities provided by the Local Authority shall apply for services in FORM-IV.
- (f) Every waste generator shall pay relevant charges for collection, transportation, processing and disposal as notified by the Local Authority; waste generator who generates more than 20 tons or more in one day or 300 tons per project in a month shall have to pay for the processing and disposal of the construction and demolition waste generated by them, apart from the payment for storage, collection and transportation.

5. Duties of service providers and their contractors.

- (a) Municipal Corporation/Municipal Council/Nagar Panchayat/ DUDA shall prepare a comprehensive waste management plan/Environmental Management Plan (EMP) covering segregation, storage, collection, reuse, recycling, transportation and disposal of construction and demolition waste generated within their jurisdiction.
- (b) Municipal Corporation/Municipal Council/Nagar Panchayat/ DUDA shall remove all construction and demolition waste and clean the area every day, if possible, or depending upon the duration of the work, the quantity and type of waste generated, appreciated storage and collection, a reasonable timeframe shall be worked out.
- (c) In case of the service providers have no logistics support to carry out the work specified in sub byelaws (a) & (b), they shall tie up with the authorized agency for removal of construction and demolition waste and pay the relevant charges as notified by the local authority.

6. Duties of Local Body- The local authority shall, -

- (a) issue detailed directions with regard to proper management of construction and demolition waste within its jurisdiction in accordance with the provision of Construction and Demolition Waste Management Rules, 2016 and make detail plan or undertaking as applicable from generator of construction and demolition waste;
- (b) incorporate all the components of the Arunachal Pradesh Construction and Demolition Waste Management Byelaws- 2021, before permitting and before issuing building permission.
- (c) chalk out stages, methodology and equipment, material involved in overall activity and final clean up after completion of the construction and demolition for safe disposal of construction and demolition waste.
- (d) make a separate mechanism for collection and transportation of C& D waste or by appointing private operators. And also should make helpline number for the same.
- (e) take user charges for collection and transportation, recycling and disposal of C&D waste. And also should penalize if the user charges are not being paid by the waste generator. The rates and penalty shall be fixed by the concern Local Authority or any other authority designated by the State Government base on the ground reality.
- (f) in case the waste generator is found littering or depositing C& D waste leading to obstruction to the traffic or the public or drains or water channel, the Local Authority shall immediately issue a notice in FORM-VI to the waste generator for clearing the area within 24 hours.
- (g) and in case of waste generator fail to response to notice served by the local body, there shall be spot fine for any littering or deposition of C&D waste so as to prevent

obstruction to the traffic or the public or drains or water channel. And also if the waste is not being segregated by the waste generator as per the asked categories. The spot fine shall be as per the notification/order issued by the local body in accordance with Arunachal Pradesh Solid Waste (Management & Handling) Byelaws-2021 from time to time.

- (h) the local body shall also do spot fine if any littering or deposition of C&D waste is done by the building material supplier's truck during the transportation of building materials such as Sand, aggregate, cement, bricks and stone etc. so as to prevent obstruction to the traffic or the public or drains or water channel.
- (i) provide appropriate incentives to generator for salvaging, processing and recycling within the premises preferably in-situ.
- (j) examine and sanction the waste management plan/ Environmental Management Plan (EMP) of the generators within a period of one month or from the date of approval of building plan, whichever is earlier from the date of its submission.
- (k) appoint In-charge or Nodal Officer dealing with construction and demolition waste management within 1 (one) month from the date publication of these byelaws.
- (l) the respective local body shall update/counter check the list of Building Permit issued by the Building Permit Sanctioning Committee of the respective towns for the purpose of C& D Waste management.
- (m) keep track of the generation of construction and demolition waste within its jurisdiction and establish a data base and update on monthly basis.
- (n) use at least 40% obtained of raw C & D waste in approved construction activities in non structure application such as lower layer of road pavements, inner colony roads, filling of plinth and basements etc.
- (o) use at least 10% of material made out of C& D waste in Municipal Corporation/Municipal Council/Nagar Panchayat/ DUDA construction activities such as kerbed stones, structure concrete as manufactured aggregate, paving blocks, bricks etc.
- (p) device appropriate measure in consultation with expert institutions for management of construction and demolition waste generated including processing facilities and for using the recycled products in the best possible manner.
- (q) create sustained system of information, education and communication for construction and demolition waste through collaboration with experts' institution and civil societies and also disseminated through their own website.
- (r) make provision for giving incentives for use of material made out of construction and demolition waste in the construction activity including in non-structure concrete, paving blocks, lower layers of road pavements, colony and rural roads.

7. Criteria for storage, processing or recycling facilities for C&D waste and application for C&D waste and its products-

- (a) The site for storage and processing or recycling facilities for construction and demolition waste shall be selected as per the criteria given in Schedule-I of the Construction and Demolition Waste Management Rules, 2016.
- (b) Application of materials made from construction and demolition waste in operation of sanitary landfill shall be as per the criteria given in Schedule-II of the Construction and Demolition Waste Management Rules, 2016.

- (c) The operator of the facility shall apply in Form-I of the Construction and Demolition Waste Management Rules, 2016 for authorization from APSPCB.
- (d) The Arunachal Pradesh State Pollution Control Board shall issue authorization to the operator in the format in Form-II of the Construction and Demolition Waste Management Rules, 2016.
- (e) The Local Body shall submit the annual report for construction and demolition waste to State Pollution Control Board in Form-III of the Construction and Demolition Waste Management Rules, 2016.
- (f) The Local Body shall submit the accident report for construction and demolition waste to State Pollution Control Board in Form-V of the Construction and Demolition Waste Management Rules, 2016.

Schedule I

Criteria for Site Selection for Storage and Processing or Recycling Facilities for construction and Demolition Waste

[See Rule 7(1) of C&D Waste Rules, 2016]

1. The concerned department in the State Government dealing with land shall be responsible for providing suitable sites for setting up of the storage, processing and recycling facilities for construction and demolition and hand over the sites to the concerned local authority for development, operation and maintenance, which shall ultimately be given to the operators by Competent Authority and wherever above Authority is not available, shall lie with the concerned local authority.
2. The Local authority shall co-ordinate (in consultation with Department of Urban Development of the State or the Union territory) with the concerned organizations for giving necessary approvals and clearances to the operators.
3. Construction and demolition waste shall be utilized in sanitary landfill for municipal solid waste of the city or region as mentioned at Schedule I of this rule. Residues from construction and demolition waste processing or recycling industries shall be land filled in the sanitary landfill for solid waste.
4. The processing or recycling shall be large enough to last for 20-25 years (project based on-site recycling facilities).
5. The processing or recycling site shall be away from habitation clusters, forest areas, water bodies, monuments, National Parks, Wetlands and places of important cultural, historical or religious interest.
6. A buffer zone of no development shall be maintained around solid waste processing and disposal facility, exceeding five Tonnes per day of installed capacity. This will be maintained within the total area of the solid waste processing and disposal facility. The buffer zone shall be prescribed on case to case basis by the local authority in consultation with concerned State Pollution Control Board.
7. Processing or recycling site shall be fenced or hedged and provided with proper gate to monitor incoming vehicles or other modes of transportation.
8. The approach and or internal roads shall be concreted or paved so as to avoid generation of dust particles due to vehicular movement and shall be so designed to ensure free movement of vehicles and other machinery.
9. Provisions of Weigh Bridge to measure quantity of waste brought at landfill site, fire protection equipment and other facilities as may be required shall be provided.
10. Utilities such as drinking water and sanitary facilities (preferably washing/bathing facilities for workers) and lighting arrangements for easy landfill operations during night hours shall be provided and Safety provisions including health inspections of workers at landfill sites shall be carried out made.
11. In order to prevent pollution from processing or recycling operations, the following Provisions shall be made, namely:

- a. Provision of storm water drains to prevent stagnation of surface water;
 - b. Provision of paved or concreted surface in selected areas in the processing or recycling facility for minimizing dust and damage to the site.
 - c. Prevention of noise pollution from processing and recycling plant:
 - d. provision for treatment of effluent if any, to meet the discharge norms as per Environment (Protection) Rules, 1986
12. Work Zone air quality at the Processing or Recycling site and ambient air quality at the vicinity shall be monitored.
 13. The measurement of ambient noise shall be done at the interface of the facility with the surrounding area, i.e., at plant boundary;
 14. The following projects shall be exempted from the norms of pollution from dust and noise as mentioned above:
 For construction work, where at least 80 percent construction and demolition waste is recycled or reused in-situ and sufficient buffer area is available to protect the surrounding habitation from any adverse impact
 15. A vegetative boundary shall be made around Processing or Recycling plant or site to strengthen the buffer zone.

Schedule II

Application of materials made from construction and demolition waste and its products.

[See Rule 7(3) of C&D Waste Rules, 2016]

Sl. No.	Parameters	Compliance Criteria
1	Drainage layer in leachate collection system at bottom of Sanitary Landfill. Gas Collection Layer above the waste at top of Sanitary Landfill and Drainage Layer in top Cover System above Gas Collection Layer of Sanitary Landfill For capping of sanitary landfill or dumpsite, drainage layer at the top	Only crushed and graded hard material (stone, concrete etc.) shall be used having coarse sand size graded material (2mm – 4.75mm standard sieve size). Since the coarse sand particles will be angular in shape (and not rounded as for riverbed sand), protection layers of non-woven geo-textiles may be provided, wherever required, to prevent puncturing of adjacent layers or components
2	Daily cover	Fines from construction and demolition processed waste having size up to 2 mm shall be used for daily cover over the fresh waste. Use of construction and demolition fines as landfill cover shall be mandatory where such material is available. Fresh soil (sweet earth) shall not be used for such places and borrow-pits shall not be allowed. Exception – soil excavated during construction of the same landfill. During hot windy days in summer months, some fugitive dust problems may arise. These can be minimised by mixing with local soil wherever available for limited period.
3	Civil construction in a sanitary landfill	Non-structural applications, such as kerb stones, drain covers, paving blocks in pedestrian areas.

FORM – I

See [Rule 7 (2) of C&D Waste Rules, 2016]

Application for obtaining authorization

To,
The Member Secretary

_____ Name of the local authority or Name of the agency:
appointed by the municipal authority

<p>Correspondence address Telephone No. Fax No.</p>	
<p>Nodal Officer and designation (Officer authorized by the competent authority or agency responsible for operation of processing or recycling or disposal facility)</p>	
<p>Authorisation applied for (Please tick mark)</p>	<p>Setting up of processing or recycling facility of construction and demolition waste</p>
<p>Detailed proposal of construction and demolition waste processing or recycling facility to include the following Location of site approved and allotted by the Competent Authority. Average quantity (in tons per day) and composition of construction and demolition waste to be handled at the specific site. Details of construction and demolition waste processing or recycling technology to be used. Quantity of construction and demolition waste to be processed per day Site clearance from Prescribed Authority Salient points of agreement between competent authority or local authority and operating agency (attach relevant document). Plan for utilization of recycled product Expected amount of process rejects and plan for its disposal (e.g., sanitary landfill for solid waste). Measures to be taken for prevention and control of environmental pollution. Investment on project and expected returns. Measures to be taken for safety of workers working in the processing or recycling plant. Any preventive plan for accident during the collection, transportation and treatment including processing and recycling should be informed to the Competent Authority (Local Authority) or Prescribed Authority</p>	
<p>Date:</p>	<p>Signature of Nodal Officer</p>

Form-II

**See [Rule (7) (3) of C&D Waste Rules, 2016]
Format for Issue of Authorization to the Operator**

File No.:

Date :

To,

Ref : Your application number _____ Dt.

The _____ State Pollution Control Board or Pollution Control Committee after examining the proposal hereby authorizes _____ having their administrative office at _____ to set up and operate construction and demolition waste processing facility at _____ on the terms and conditions (including the standards to comply) attached to this authorisation letter.

1. The validity of this authorisation is till _____. After expiry of the validity period, renewal of authorisation is to be sought.

2. The _____ State Pollution Control Board or Pollution Control Committee may, at any time, for justifiable reason, revoke any of the conditions applicable under the authorization and shall communicate the same in writing.

3. Any violation of the provision of the construction and demolition Waste Management Rules, 2016 shall attract the penal provision of the Environment (Protection) Act, 1986 (29 of 1986).

Date:
Place:

(Member Secretary)
State Pollution Control Board/
Pollution Control Committee

Form –III

See [Rule 8(2) of C&D Waste Rules, 2016]

Format of Annual Report to be submitted by Local Authority to the State Pollution Control Board

- (i) Name of the City or Town.....
- (ii) Population.....
- (iii) Name and address of local authority or competent authority

Telephone No :

Fax :

Email ID:

Website:

- (iv) Name of In-charge or Nodal Officer dealing with construction and demolition wastes management with designation

1. Quantity and composition of construction and demolition waste including any deconstruction waste

- (a) Total quantity of construction and demolition waste generated during the whole year in metric ton

Any figures for lean period and peak period generation per day

Average generation of construction and demolition waste (TPD)

Total quantity of construction and demolition waste collected per day

Any Processing / Recycling Facility set up in the city

Status of the facility

- (b) Total quantity of construction and demolition waste processed / recycled (in metric ton)

Non-structural concrete aggregate :

Manufactured sand :

Ready-mix concrete (RMC) :

Paving blocks :

GSB :

- (c) Total quantity of Construction & Demolition waste disposed by land filling without processing (last option) or filling low lying areas

No of landfill sites used : Area

used : Whether weigh-bridge : Yes

No

facility used for quantity estimation?

- (d) Whether construction and demolition waste used in sanitary landfill (for solid waste) as per Schedule III

: Yes No

Others, if any, please specify :

2. Storage facilities

(a) Area or location or plot or societies covered for collection of Construction and Demolition waste

(b) No. of large Projects (including roadways project) covered

(c) Whether Area or location or plot or societies collection is

or Non-Governmental Organization) :

(d) Storage Bins : -----

Specifications (Shape & Size)	Existing Number	Proposed for future
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(i) Containers or receptacle
(Capacity) (ii) Others, please specify

(e) Whether all storage bins/collection spots are attended for daily lifting : Yes No

(e) Whether lifting of Construction & Demolition Waste from Storage bins is manual or mechanical (please tick mark) please specify mode : Manual Mechanical and Others, equipment used (specify equipment)

3. Transportation

	Existing	Actually Required/Proposed number
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Truck :
Truck-Hydraulic :
Tractor-Trailer :
Dumper-placers :
Tricycle :
Refuse-collector Others :
(Please specify) :

4. Whether any proposal has been made to improve Construction and Demolition waste management practices

5. Have any efforts been made to involve PPP for processing of Construction & Demolition waste : If yes, what is (are) the technologies being used, such as:

Processing / recycling Technology	(Quantity to be processed)	Steps taken
Dry Process	:	
Wet Process	:	
Others, if any, Please specify	:	

6. What provisions are available to check unauthorized operations of:

- Encroachment on river bank or wet bodies :
- Unauthorized filling of low line areas :
- Mixing with solid waste :
- Encroachment in Parks, Footpaths etc. :

7. How many slums are provided with construction and demolition waste receptacles facilities:

8. Are municipal magistrates appointed

for taking penal action for non-compliance with these rules: Yes No

[If yes, how many cases registered & settled during last three years (give year wise details)]

Dated:

Signature of Municipal Commissioner

Form-IV
See [byelaws section 4(e)]
Service request for Collection, Transportation and storage of C&D waste

To,

The Commissioner/DC/CEO/Member Secretary

.....
.....
.....

Sub: - Service Request For Construction and Demolition Waste Management-regd.

1. Name of applicant :
2. Address for service
 - a. Ward :
 - b. Colony/Sector :
 - c. Street :
 - d. Any reference point :
3. Mobile No. :
4. Service required (tick) : Collection Transportation Storage Disposal
5. Source of C&D waste (tick) : construction work Demolition work other
6. Date of construction work started, enclosed order/permit if any:
7. Date of demolition work started, enclosed order/permit, if any:
8. Quantity of C&D Waste (approx. in Ton) :
9. Volume of C&D waste (approx. in cu.m) :
10. User charges payment (Rs) :...../- (Rupees.....
.....)
11. Dated of payment.....Receipt No/Challan No.....

Date:

Signature of Applicant
Mobile No.....

Form –V
See [Rule14 of C&D Waste Rules, 2016]
Accident reporting

1. Date and time of accident:
2. Sequence of events leading to accident:
3. The type of construction and demolition waste involved in accident :
4. Assessment of the effects of the accidents on traffic, drainage system and the environment:
5. Emergency measures taken:
6. Steps taken to alleviate the effects of accidents:
Steps taken to prevent the recurrence of such an accident
7. of such incident:
Regular monthly health checkup of workers at Processing / recycling site
8. shall be made:
Any accident during the collection,
 - a. transportation and treatment including
 - b. processing and recycling should be informed
 - c. to the Competent Authority (Local Authority) or
 - d. Prescribed Authority
- 9.

Date:
Place:

Authorized Signatory
Designation

Form VI
See [byelaw section 6(f)]

ORDER

Under section 6 (f) of the Arunachal Pradesh Construction and Demolition Waste
Management Byelaws, 2021

To,

.....
.....

Whereas you have dumped or not cleared waste generated from construction and demolitions works at

- i. Road side at.....
- ii. Drain at.....
- iii. Water channel at.....

leading to obstruction to the traffic or the public or drains or water channel, which contravention of section 4 of the C&D waste Management Rules, 2016.

You are hereby required to clear the dumped waste and restore the said area to its original state. If failed to do so within a period of 24 hrs from the date of issue of this order, this office shall liable to take necessary action against you.

Authorized Signatory

Designation

[Mitali Namchoom] IAS
Secretary to the Government of Arunachal Pradesh
Department of Town Planning & Urban Local Bodies
Itanagar