

# MEGHALAYA STATE POLLUTION CONTROL BOARD



(23)  
(Forests & Environment Department)

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By E-mail/Speed Post

NO. MPCB/TB-SWM-3(Pt-I)/2016-2017/23

Dated: 28<sup>th</sup> March, 2017

To

The Member Secretary,  
Central Pollution Control Board,  
Parivesh Bhawan, East Arjun Nagar,  
Delhi – 110032.

Email- [kamyotra@yahoo.co.in](mailto:kamyotra@yahoo.co.in), [adaba.cpcb@nic.in](mailto:adaba.cpcb@nic.in).

Sub: Furnishing Annual Report on Implementation of Solid Waste Management Rules, 2016 for the year 2015-16 – reg.

Sir,

In inviting a reference to the above, please find enclosed herewith the Consolidated Annual Report in prescribed forms on Solid Waste Management for the year 2015-16 in respect of Meghalaya for favour of your information and needful.

Enclosed: As stated

Yours' faithfully

  
MEMBER SECRETARY

Meghalaya State Pollution Control Board.

Shillong

Memo. NO. MPCB/TB-SWM-3(Pt-I)/2016-2017/23-A

Dated: 28<sup>th</sup> March, 2017

Copy to:

1. The Zonal Officer, Central Pollution Control Board, "TUM – SIR" Lower Motinagar, Near Fire Brigade HQ, Shillong-793014 for information.

  
MEMBER SECRETARY

Meghalaya State Pollution Control Board.

Shillong

O/c

**Form - V**  
[see rule 24(3)]  
**Annual Review Report for the year 2015-2016 submitted by the**  
**Meghalaya State Pollution Control Board, Shillong.**  
**PART A**

To,

The Chairman,  
Central Pollution Control Board  
Parivesh Bhawan, East Arjun Nagar  
Delhi - 110032.

1. Name of the State/Union Territory : MEGHALAYA
2. Name & address of the State Pollution Control : MEGHALAYA STATE POLLUTION  
CONTROL BOARD
3. Number of local bodies responsible for : 7 (seven)  
management of solid waste in the  
State/Union territory under these rules
4. No. of authorization application : 5 (Five)  
Received
5. A Summary Statement on progress made : Attached as Annexure-I  
by local body in respect of solid waste  
management
6. A Summary Statement on progress made : Attached as Annexure-II  
by local bodies in respect of waste  
collection, segregation, transportation  
and disposal
7. A summary statement on progress made : Attached as Annexure-III  
by local bodies in respect of  
implementation of Schedule II

Date: 28/03/2017

Place: Shillong

  
Member Secretary  
Meghalaya State Pollution Control Board  
Shillong

**A Summary Statement on progress made by local bodies in respect of Solid Waste Management**

**1. TURA MUNICIPAL BOARD:**

**(i) *Setting up of waste processing and disposal facilities:-***

A Vermi-compost Plant is adopted at Tura for processing of bio-degradable waste.

**(ii) *Monitoring the performance of waste processing and disposal facilities:-***

Monitoring of the performance of the waste processing and disposal facility has not been carried out by the Board due to acute shortage of Scientific and Technical manpower.

**(iii) *Improvement of existing landfill sites as per provision of these Rules:-***

A study of the solid waste generation and characteristic of the Municipal area has been undertaken by M/s Anderson Biotech, Shillong and the detailed project report has been submitted to the Government in the Urban Affairs Department, Meghalaya to move for sanction of funds from the Government of India for a Scientific Solid Waste Management Project. The Project Report has been accepted by the Government of India and construction work has been commenced and structure is completed at Municipal Dumping Ground located in Rongkon Songgital but installation of machineries has not been done.

**(iv) *Identification of landfill sites for future use and making the site ready for operation:-***

The Tura Municipal Board has no proposal for selection of a new site for future use.

**2. JOWAI MUNICIPAL BOARD:**

**(i) *Setting up of waste processing and disposal facilities:-***

The Jowai Municipal Board has acquired a plot of land at Sabah Muswang for the purpose of construction of a scientific landfill site. The Detailed Project Report for the proposed project has been prepared by the Meghalaya Urban Development Authority and is lying with the Government for approval.

**(ii) *Monitoring the performance of waste processing and disposal facilities:-***

Monitoring of the performance of the waste processing and disposal facility is not required presently as there is no processing facility.

**(iii) *Improvement of existing landfill sites as per provision of these Rules:-***

The Jowai Municipal Board does not have its own disposal site. At present, the Municipal Solid Wastes collected by the Board are disposed/dumped at the Jaintia Hills Autonomous District Council dumping ground at Myngkjai.

**(iv) *Identification of landfill sites for future use and making the site ready for operation:-***

The Jowai Municipal Board has acquired a plot of land at Sabah Muswang for the purpose of construction of a scientific landfill site.

### **3. WILLIAMNAGAR MUNICIPAL BOARD:**

(i) ***Setting up of waste processing and disposal facilities:-***

There is no proposal for processing of Municipal Solid Wastes either by composting, vermi-composting or pelletisation by the Williamnagar Municipal Board.

(ii) ***Monitoring the performance of waste processing and disposal facilities:-***

Monitoring of the performance of the waste processing and disposal facility is not required presently as there is no processing facility.

(iii) ***Improvement of existing landfill sites as per provision of these Rules:-***

There is no proposal for improvement of the existing landfill site by the Williamnagar Municipal Board.

(iv) ***Identification of landfill sites for future use and making the site ready for operation:-***

The Williamnagar Municipal Board has no proposal for selection of a new site for future use as the average daily quantity of waste generated is only about 10.9 MT and the existing site has sufficient area for its disposal.

### **4. SHILLONG MUNICIPAL BOARD:**

(i) ***Setting up of waste processing and disposal facilities:-***

An Aerobic Compost Plant has been set up at Mawiong for treating the bio-degradable municipal solid wastes. The total quantity of waste processed for composting is 35 MTPD. The Municipal Solid Wastes generated by the areas under the Shillong Municipal Board, Shillong Cantonment Board and some localities outside the municipal areas are processed at this processing Plant.

(ii) ***Monitoring the performance of waste processing and disposal facilities:-***

Monitoring of the performance of the waste processing and disposal facility is carried out by the Board from time to time.

(iii) ***Improvement of existing landfill sites as per provision of these Rules:-***

There has been no further improvement of the existing site since last reported.

(iv) ***Identification of landfill sites for future use and making the site ready for operation:-***

The State Investment Programme Management & Implementation Unit (SIPMIU) will be setting up a Scientific Landfill near Umsawli Village outside Shilling under the North Eastern Region Capital Cities Development Investment Programme (NERCCDIP) with the financial assistance of the Asian Development Bank (ADB).

### **5. RESUBELPARA MUNICIPAL BOARD:**

(i) ***Setting up of waste processing and disposal facilities:-***

There is no proposal for processing of Municipal Solid Wastes either by composting, vermi-composting or pelletisation by the Resubelpara Municipal Board as the quantity of the waste generation is very less, at an average of 0.75 MT/day.

(ii) ***Monitoring the performance of waste processing and disposal facilities:-***

Monitoring of the performance of the waste processing and disposal facility has not required presently as there is no processing facility.

(iii) ***Improvement of existing landfill sites as per provision of these Rules:-***

There is no proposal for improvement of the existing dumping site by the Resubelpara Municipal Board.

(iv) ***Identification of landfill sites for future use and making the site ready for operation:-***

There is no proposal for identification of landfill sites for future use.

**6. BAGHMARA MUNICIPAL BOARD:**

Annual Report not submitted.

**7. SHILLONG CANTONMENT BOARD**

Annual Report not submitted.

  
MEMBER SECRETARY  
Meghalaya State Pollution Control Board,  
Shillong.

**A Summary Statement on progress made by local bodies in respect of waste collection, segregation, transportation and disposal**

**1. TURA MUNICIPAL BOARD:**

**(i) Collection of Municipal Solid Wastes:-**

- Municipal Solid Wastes at an average daily quantity of 45 MT are collected.
- Collection of garbage is being done on daily basis from the storage bins located in different localities/wards.
- House to house collection is being practiced.

**(ii) Segregation of Municipal Wastes:-**

- Segregation of Municipal Solid Waste is being introduced for the purpose of vermi culture processing of bio-degradable waste at the facility being installed at the existing disposal site.

**(iii) Storage of Municipal Wastes:-**

- 35 (Thirty-Five) Masonry bins, 16(sixteen) Covered Plastics/Metal Containers, 16 (Sixteen) Containers (above 5m<sup>3</sup>) are provided in all the wards.
- The wastes from storage bins are cleared manually and one JCB Robot is used to load garbage on exceptionally high garbage accumulation days.

**(iv) Transportation of Municipal Wastes:-**

- 1 (One) Tractor, 2(Two) Non Tipping Truck, 13(Thirteen) Tipping Truck, 2 (Two) Dumper-placers, 1 (One) Refuse Collection and 1 (One) JCB (Robot) are used for transportation of the collected Municipal Solid Wastes to the disposal site.
- The vehicles used for transportation of wastes are covered.
- Manual handling of wastes is adopted for loading and unloading and one JCB Robot is used to load garbage on exceptionally high garbage accumulation days.

**(v) Processing of Municipal Wastes:-**

- Vermi composting facility is adopted for processing of bio-degradable Municipal Solid Wastes.

**(vi) Disposal of Municipal Wastes:-**

- Non-bio-degradable waste collected is dumped in the existing dumping yard of Tura Municipal Board.

**2. JOWAI MUNICIPAL BOARD:**

**(i) Collection of Municipal Solid Wastes:-**

- Municipal Solid Wastes at an average daily quantity of 48 MT are collected from different localities/wards on daily basis.
- House to house collection is being practiced.

**(ii) Segregation of Municipal Wastes:-**

- No segregation of Municipal Solid Waste is adopted.

**(iii) Storage of Municipal Wastes:-**

- Uses of Public Dustbins are discouraged by Local Durbar of different Localities in the Town.

**(iv) Transportation of Municipal Wastes:-**

- 2(Two) Non tipping Trucks, 3(Three) Tipping Truck and 2 (Two) Tata Ace & Tata 207 are used for transportation of the collected Municipal Solid Wastes to the disposal site.
- The vehicles used for transportation of wastes are covered.
- Manual handling of wastes is adopted for loading and unloading.

**(v) Processing of Municipal Wastes:-**

- No processing of Municipal Solid Wastes has been adopted so far.

**(vi) Disposal of Municipal Wastes:-**

- At present the solid waste collected is dumped in the existing dumping yard at Myngkjai of Jaintia Hills Autonomous District Council.

**3. WILLIAMNAGAR MUNICIPAL BOARD:**

**(i) Collection of Municipal Solid Wastes:-**

- Municipal Solid Wastes at an average daily quantity of 10.5 MT are collected
- Collection of garbage is being done on daily basis from the storage bins located in different localities/wards.
- Effort is being made to implement the house to house collection.

**(ii) Segregation of Municipal Wastes:-**

- No segregation of Municipal Solid Waste is adopted.

**(iii) Storage of Municipal Wastes:-**

- 19(nineteen) Masonry bins and 15 (fifteen) Covered Plastics/Metal Containers are provided in all the wards.
- The waste from storage bins are cleared manually.

**(iv) Transportation of Municipal Wastes:-**

- 2(two) Non tipping Trucks, 3 (three) Tipping Truck and 1 (One) JCB are used for transportation of the collected Municipal Solid Wastes to the disposal site.
- The vehicles used for transportation of wastes are not covered.
- Manual handling of wastes is adopted for loading and unloading.

**(v) Processing of Municipal Wastes:-**

- No processing of Municipal Solid Wastes has been adopted so far.

**(vi) Disposal of Municipal Wastes:-**

- At present the solid waste collected is dumped in the landfill site.

#### **4. SHILLONG MUNICIPAL BOARD:**

##### ***(i) Collection of Municipal Solid Wastes:-***

- Municipal Solid Wastes at an average daily quantity of 45 MT are collected.
- House to house collection has been introduced in the wards and the process is being expanded to cover all the wards in a phase manner to minimise littering.
- Storage bins and trolleys are being used for collection of Municipal Solid Wastes located in different localities/wards

##### ***(ii) Segregation of Municipal Wastes:-***

- Segregation of Municipal Solid Waste is being adopted in different wards. The SMB distributes colour coded bins for segregation of waste i.e. biodegradable waste and non - biodegradable waste

##### ***(iii) Storage of Municipal Wastes:-***

- 8(eight) trolleys of 1.5 m<sup>3</sup> have been provided for collection and storage.
- The waste from storage bins are cleared manually.

##### ***(iv) Transportation of Municipal Wastes:-***

- 6 (Six) Trucks/Compactors, 8 (Eight) Tipping Truck, 1 (One) Dumper-placers, 3 (Three) Tata Ace, 12 (Twelve) Tata Pick-Up and 3 (three) Cess Pool Cleaner are used for transportation of the collected Municipal Solid Wastes to the disposal site.
- 1 (One) van is used for collection of bio-medical waste from Hospitals.
- The vehicles used for transportation of wastes are covered.
- Manual handling of wastes is adopted for loading and unloading.

##### ***(v) Processing of Municipal Wastes:-***

- Aerobic composting is adopted for processing of bio-degradable Municipal Solid Wastes.

##### ***(vi) Disposal of Municipal Wastes:-***

- Non-bio-degradable waste, compost plant rejects, construction debris are presently dumped at the trenching ground adjacent to the compost plant at Mawiong.

#### **5. RESUBELPARA MUNICIPAL BOARD:**

##### ***(i) Collection of Municipal Solid Wastes:-***

- Municipal Solid Wastes at an average daily quantities of 7.5MT are collected from the RCC storage bins and trolleys located in different localities/wards.
- Effort is being made to implement the house to house collection.

##### ***(ii) Segregation of Municipal Wastes:-***

- No segregation of Municipal Solid Waste is adopted.

##### ***(iii) Storage of Municipal Wastes:-***

- 16 (sixteen) R.C.C open storage bins, 6 (six) trolleys and 20 (Twenty) Containers are in existence.
- The waste from storage bins are cleared manually.

**(iv) Transportation of Municipal Wastes:-**

- 1 (One) Truck, 2 (Two) Tipping Truck, 1 (One) Dumper placer and 3 (three) Auto pickup van are used for transportation of the collected Municipal Solid Wastes to the disposal site.
- The vehicles used for transportation of wastes are covered.
- Manual handling of wastes is adopted for loading and unloading.

**(v) Processing of Municipal Wastes:-**

- No processing of Municipal Solid Wastes has been adopted so far.

**(vi) Disposal of Municipal Wastes:-**

- At present the solid waste collected is openly dumped at the site.

**6. BAGHMARA MUNICIPAL BOARD:**

Annual Report not submitted.

**7. SHILLONG CANTONMENT BOARD:**

Annual Report not submitted.

  
MEMBER SECRETARY

Meghalaya State Pollution Control Board  
Shillong

**A Summary Statement on progress made by local bodies in respect of implementation of Schedule II.**

**Standards for Composting, Treated Leachate and incineration**

1. In Meghalaya, the Shillong Municipal Board has set up a Waste Processing facility by adopting aerobic composting process of bio-degradable wastes. This facility is also shared by the Shillong Cantonment Board. The Tura Municipal Board has also set up a Waste Processing facility by adopting Vermi-composting for processing of bio-degradable wastes.
2. There is no incineration plant for Municipal Solid Waste in the State.

  
MEMBER SECRETARY  
Meghalaya State Pollution Control Board,  
Shillong.

## Part B

### (For Filling Annual Report 2015-2016 on MSW Management by the Meghalaya State Pollution Control Board, Shillong)

#### Towns/cities

Total number of towns/cities-22

Total number of ULBs-7

Number of class I & II cities/towns- Class-I: 1No. and Class-II: 2Nos.

#### Authorisation status (names/number)

Number of applications received- 5 Nos. (Shillong Municipal Board, Jowai Municipal Board, Tura Municipal Board, Williamnagar Municipal Board, Resubelpara Municipal Board)

Number of authorization granted- 4 Nos. (Shillong Municipal Board, Jowai Municipal Board, Williamnagar Municipal Board, Tura Municipal Board)

Authorization under scrutiny- 1 No. (Resubelpara Municipal Board)

#### SOLID WASTE Generation status

Solid waste generation in the state (TPD)-187 TPD

Collected- 156 TPD

Treated- 36 TPD

Landfilled- 120 TPD

#### Compliance to Schedule I of SW Rules (Number/name of towns/capacity)

Good practices in cities/towns-1 (Shillong Municipal Board).

House-to-house collection-6 (Shillong Municipal Board, Shillong Cantontment Board, Jowai Municipal Board, Tura Municipal Board, Williamnagar Municipal Board, Resubelpara Municipal Board)

Segregation-2 (Shillong Municipal Board, Tura Municipal Board).

Storage-6 (Shillong Municipal Board, Shillong Cantontment Board, Jowai Municipal Board, Tura Municipal Board, Williamnagar Municipal Board, Resubelpara Municipal Board)

Covered transportation-4 (Shillong Municipal Board, Shillong Cantontment Board, Jowai Municipal Board, Resubelpara Municipal Board)

#### Processing of SW (Number/names of towns/capacity)

Solid Waste processing facilities setup:

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
1	1(Shillong Municipal	1(Tura Municipal	Nil	Nil

	Board) 35 MT/Day	Board) 18MT/Day		
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**Processing facility operational:**

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
1	1(Shillong Municipal Board) 35 MT/Day	1(Tura Municipal Board) 18MT/Day	Nil	Nil

**Processing facility under installation/planned:**

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
	Nil	Nil	Nil	Nil

**Waste-to-Energy Plants: (Number/names of towns/capacity)**

Sl. No.	Plant Location	Status of operation	Power generation (MW)	Remarks
	Nil	Nil	Nil	Nil

**Disposal of solid waste (number/names of towns/capacity):**

Landfill sites identified-1 No. (Jowai Municipal Board)

Landfill constructed-Nil

Landfill under construction-1 No. (Shillong Municipal Board)

Landfill in operation -Nil

Landfill exhausted-Nil

Landfill capped-Nil

**Solid Waste Dumpsites (number/names of towns/capacity):**

Total number of existing dumpsites-6 Nos. (Shillong Municipal Board, Shillong Cantontment Board, Jowai Municipal Board, Tura Municipal Board, Williamnagar Municipal Board, Resubelpara Municipal Board)

Dumpsites reclaimed/capped-Nil

Dumpsites converted to sanitary landfill-1No. (Shillong Municipal Board)

**Monitoring at Waste processing/Landfills sites**

Sl. No.	Name of facilities	Ambient air	Ground water	Leachate quality	Compost quality	VOCs
1.	Dumping Site of Shillong	yes	yes	yes	No	No

	Municipal Board					
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### Status of Action Plan prepared by Municipalities

Total number of municipalities:7

Number of Action Plan submitted:4

Status of implementation of the Action Plan, etc.

Shillong Municipal Board- Coloured bins (Green & Blue) i.e. Wet waste (biodegradable) in the GREEN bin and non- biodegradable waste in the BLUE bin have been provided by the SMB through an ADB funded project. About 60% compliance of segregating waste at household level and storing in colour coding bins has been registered during the the operation segregation. The garbage truck drivers and the attendants have been trained and they are turning as monitors and educators of the public on segregation of wastes. The Shillong Municipal Board has organized awareness training events for the urban citizens of Shillong, conducted public consultation meeting and trained students on zero littering campaign.

Shillong Cantontment Board- Daily collection of garbage is being done from community dustbins and door to door. To control the unregulated throwing of waste 200 nos. of bamboo dustbins, 30 nos. of hanging dustbins and sign boards for prohibition of throwing are being installed and displayed. To bring about public awareness and public participation Shillong Cantontment Board has initiated a cleaning drive of the Umshyrpi River.

Tura Municipal Board- They have tried to maintaining cleanliness, sanitation, hygienic within its jurisdiction inspite of fund constraint and shortage of staff. Vermi compost plant has been constructed at Tura Municipal Board dumping ground at Rongkhon Songgital by M/S Anderson Structural Consultant, Shillong.

Williamnagar Municipal Board- Efforts is being made to engage the private firm for processing of waste by Vermi composting, due to, fund constraint faced by the Local Body.



MEMBER SECRETARY  
Meghalaya State Pollution Control Board,  
Shillong.