### GANGTOK MUNICIPAL CORPORATION

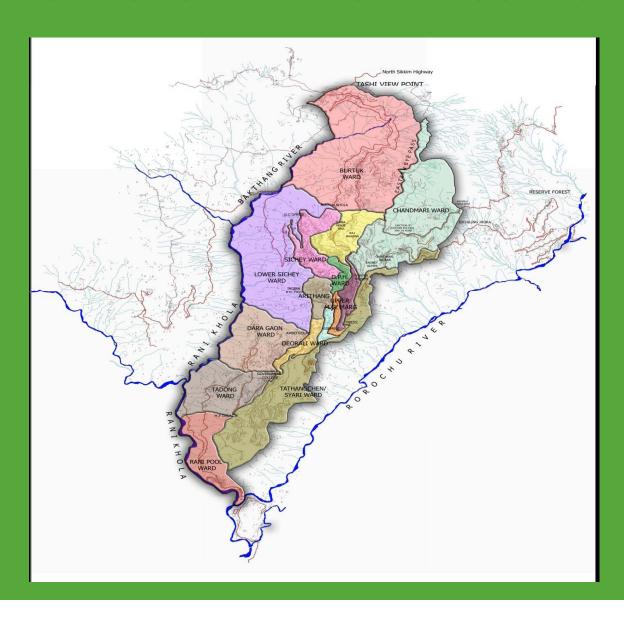




#### **GANGTOK MUNICIPAL CORPORATION**

- 1. FORMED IN **MAY 2010**.
- 2. POPULATION: 1,00,286 (CENSUS 2011)
- 3. AREA: 19.016 SQ. KM
- 4. 17 MUNICIPAL WARDS
- 5. BOUNDARY: TASHI VIEW POINT UPTO RANIPOOL.
- 6. GMC ONE OF THE **YOUNGEST & SMALLEST**CORPORATION IN INDIA.

### MAP OF GANGTOK MUNICIPAL CORPORATION





## SOLID WASTE MANAGEMENT

- ONE OF THE MAJOR FUNCTION ASSIGNED TO THE CORPORATION BY THE GOVERNMENT.
- CORPORATION HAS FLEETS OF 17 TRUCKS OF DIFFERENT SIZES.
- 82 STAFFS FOR SANITATION WHICH INCLUDES DRIVERS, SUPERVISORS AND SAFAIKARMACHARIS.
- OUT OF 82, 13 ARE REGULARS AND ALL REST ON MUSTER ROLL BASIS.

SIKKIM





#### **GAZETTE**

## EXTRAORDINARY PUBLISHED BY AUTHORITY

Gangtok

Saturday 28th May, 2016

No. 195

GOVERNMENT OF SIKKIM HOME DEPARTMENT GANGTOK

No: 26/ Home/2016.

Dated: 19/05/2016

#### NOTIFICATION

Whereas the Government has been initiating various measures to manage the waste and maintain a clean environment, it has been found that a lot of disposable styrofoam items are being rampantly used not only in the bazaar areas but also in the rural areas. The result is that a huge quantity of municipal waste is created in the form of used Styrofoam and other disposable products. These products are environmentally hazardous and occupy a huge space in our landfill. It is also not healthy to eat especially hot items in the styrofoam containers.

Therefore, the government is pleased to ban the sale and use of disposable items, such as, cups, plates, spoons, containers etc made from Styrofoam throughout the state with immediate effect.

By order and in the name of the Governor of Sikkim.



Alok K. Shrivastava, IAS
Chief Secretary
Government of Sikkim
File No. GOS/RMDD/2015-16/157/SAN

#### SIKKIM



#### GAZETTE

#### EXTRAORDINARY PUBLISHED BY AUTHORITY

Gangtok

Saturday 28th May, 2016

No. 194

#### GOVERNMENT OF SIKKIM HOME DEPARTMENT GANGTOK

No: 25/Home/2016.

GOVERNMENT

Dated: 19/05/2016

#### NOTIFICATION

There has been rampant use of packaged drinking water during departmental meetings and functions, which is creating a huge quantity of garbage which adds to the burden of the landfill.

Therefore, in order to reduce creation of garbage in the form of used drinking water plastic bottles, it is notified that the packaged drinking water bottles may not be used during any government meetings or functions. As an alternative, it is suggested and encouraged to all the departments to use filtered water or water from large reusable water dispensers or to use reusable water bottles in government functions, thereby, avoaiding the use of packaged/bottled drinking water.

By order and in the name of the Governor of Sikkim.



Alok K. Shrivastava, IAS Chief Secretary Government of Sikkim File No. GOS/RMDD/2015-16/157/SAN

### SIKKIM

### GOVERNMENT



#### **GAZETTE**

## EXTRAORDINARY PUBLISHED BY AUTHORITY

Gangtok

luesday 27th January, 2015

No.13

#### GOVERNMENT OF SIKKIM

### FORESTS, ENVIRONMENT & WILDLIFE MANAGEMENT DEPARTMENT

No.196/FEWMD

Dated. 5.1.2015

#### NOTIFICATION

In exercise of the powers conferred by sub-section (5) of section 19 of the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981), the State Government in consultation with the State Pollution Control Board-Sikkim, hereby prohibits the burning of agricultural waste, leaves, litter, paper wastes and garbage within the State of Sikkim with immediate effect.

This prohibition shall, however, not cover the use of processed agricultural wastes, leaf litter, and garbage as fuel and controlled burning of forest litter for the puripose of scientific management of forest fires.



Dr. Thomas Chandy
Principal Secretary-cum-PCCF,
Forests, Environment and Wildlife Management Department,
Govt. of Sikkim.
File No. GOS/541/SPCB



#### GANGTOK MUNICIPAL CORPORATION DEORALI, SIKKIM

Phone: 03592-280290 Fax: 03592-281641

No: 575/GMC/2014 Date: 05/09/2014

#### CIRCULAR

E-waste (electronic waste) consists of electronic devices, telecommunication devices, computer accessories, printer cartridges, electronic components etc. E-waste contain toxic substances like Lead, Cadmium, Mercury, Arsenic, Barium and Polyvinyl Chloride (PVC). In the absence of an effective method for collection of e-waste and managing the hazardous constituents, it is likely to be disposed off in landfills resulting in high environmental risk and health hazards.

The State has a lot of e-waste like computers, scanners, printers, UPS, Photocopy machines etc. occupying space in the offices in all government departments generated in the past years. There is a requirement for an effective method for proper and safe disposal of the e-waste generated in the State.

The Gangtok Municipal Corporation (GMC) in association with the Department of Information Technology has established a collection centre for e-waste at the GMC premises. The collection centre will serve as a store house for all the e-waste generated (which has no resale value in the local market) in all government departments and private organization in the State.

The e-waste collected will be auctioned through open tender to the e-waste recyclers empanelled by the Ministry of Environment & Forest, Government of India.

All State Government departments and private organization are hereby advised to deposit the e-waste generated at the Collection Centre, GMC, Deorali.

Sd/-

(C.P. Dhakal) Municipal Commissioner



## TABLE 3.22 PROJECTIONS FOR MSW GENERATION IN GANGTOK

| Year | Total population of GMC |  |                       | SW GENERATION IN GANGTOK  For Floating Population |                                      |                        |                |
|------|-------------------------|--|-----------------------|---|--------------------------------------|------------------------|----------------|
|      | Population              | Waste<br>generation<br>rate GPCD<br>@ 1.41%<br>growth p.a. | Generation of SW (MT) | population<br>@ 2%<br>growth                      | SW GPCD<br>@ 1.41%<br>growth<br>p.a. | Generation of SW (TPD) | Total<br>(TPD) |
| 2011 | 1,00,286                | 392  | 39.3                  | 4500  | 392                                  | 1.8                    | 41.0           |
| 2016 | 1,13,427                | 420  | 47.6                  | 4968  | 420                                  | 2.1                    | 49.7           |
| 2021 | 1,29,909                | 450  | 58.5                  | 5485  | 450                                  | 2.5                    | 61.0           |
| 2026 | 1,49,732                | 483  | 72.3                  | 6056  | 483                                  | 2.9                    | 75.2           |
| 2031 | 1,72,897                | 518  | 89.6                  | 6687  | 518                                  | 3.5                    | 93.0           |
| 2036 | 1,99,403                | 556  | 110.8                 | 7383  | 556                                  | 4.1                    | 114.9          |
| 2041 | 2,29,251                | 596  | 136.6                 | 8151  | 596                                  | 4.9                    | 141.5          |

### **NGOS INVOLVED IN SWM**

- 1. WATSON COMMITTEE
- 2. UNITED UPPER SICHEY EDUCATED UNEMPLOYED COOPERATIVE SOCIETY LTD.
- 3. AZAMBARI COOPERATIVE.
- 4. UNITED SWASTK YOUTH.
- 5. MULTIPURPOSE COOPERATIVE SOCIETY, RANIPOOL.
- 6. DEORALI KALYAN SAMAJ.
- 7. CHANDMARI YOUTH.
- 8. UNITED ARITHANG DEVELOPMENT SOCIETY.
- 9. NEIGHBOURHOOD WATCH ASSOCIATION.

## **GOOD PRACTICES**

- IMPOSITION OF GARBAGE COLLECTION FEE FOR THE FIRST TIME EVER.
- LINKING OF GARBAGE COLLECTION FEE TO RENEWAL OF TRADE LICENCES. NO MANPOWER REQUIRED TO SERVE BILLS TO THE BUSINESS ESTABLISHEMNT.
- DIFFERENT RATES OF GARBAGE COLLECTON FEE FOR SHOPS/HOTELS AND RESTAURANTS DEPENDING ON SIZE/NUMBER OF ROOMS.
- REMOVAL OF LARGE COMMUNITY BINS FROM CRITICAL AREAS.
- COLLECTION OF GARBAGE BY RINGING OF BELLS.
- CERTAIN AREAS SPECIALLY PERIPHERIAL WARDS OUTSOURCED TO NGOS FOR COLLECTION OF GARBAGE
- IMPOSITION OF FINE ON PEOPLE CAUGHT THROWING GARBAGE IN JHORAS/DRAINS. RS. 5000/-(FINE)

# Activities under Swachha Bharat Abhiyaan and other initiatives...

- Flagged off Compactor vehicles provided under ADB through Hon'ble Chief Minister on the occasion of Gandhi Jayanti.
- Engage -14, an awareness programme for school children held in all the schools located within Gangtok.
- Other sensitization and awareness programme conducted for school children.
- Awareness on segregation of waste at source initiated at two wards viz.,
   Ranipool and Tadong wards in coordination with ADB experts.



## School awareness programme.





## ACTIVITIES OF GMC









### THE INTER SCHOOL SOLID WASTE MANAGEMENT CHALLENGE





## AWARDS RECEIVED BY GMC:

- 1. BEST HILLY STATION IN INDIA (AAJ TAK)
- 2. BEST TOP 10 CLEANEST CITY IN INDIA (2015)
- 3. BEST TOP 8 CLEANEST CITY IN INDIA (2016)
- 4. SAFAIGIRI AWARDS FROM PM (INDIA TODAY)





## E -waste collection centre at GMC

- The Corporation has established e-waste collection centre at GMC office where all electronic waste will be collected and disposed off as per procedures.
- Honble Minister (UD & HD)
- Mayor, Commissioner and others officers.



## NH 31 A WAS BLOCKED GMC WORKERS ACTIVELY INVOLVED TO CLEAR ALL DEBRIS

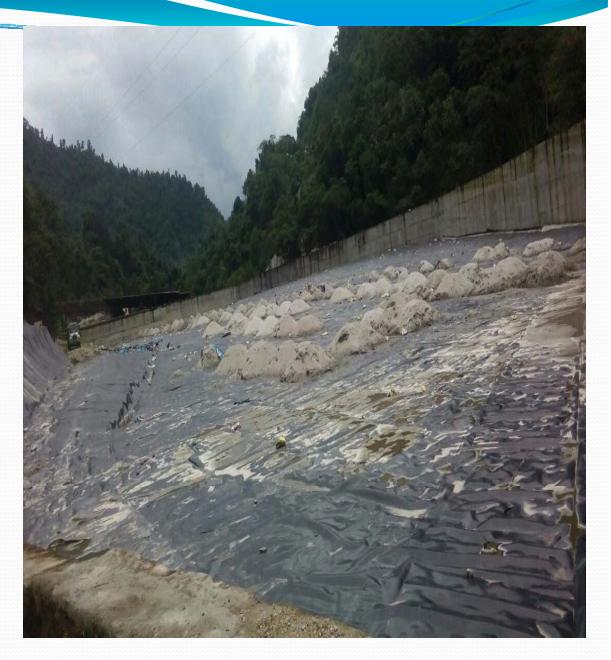


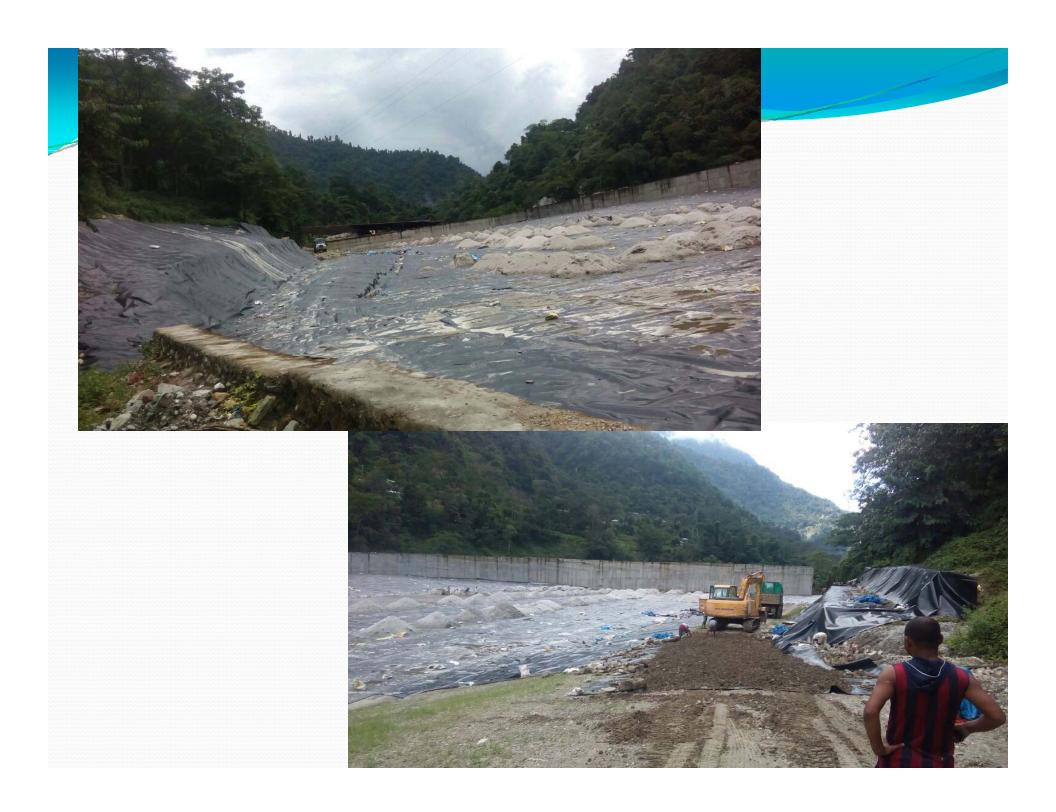


## MARTAM COMPOSIT PLANT

The Corporation has already initiated works to improve the situation at Martam landfill site. The accumulated garbage has been laid in the ground in supervision of SPCB.

The Compost Plant is being repaired and it will be made functional very soon.









## CHALLENGES ???????

- SERVICE AREA INCREASED FROM 3.5 SQ. KM TO 19.016 SQ.KM BUT THE STRENGTH OF THE MANPOWER REMAINS IN THE SAME.
- DIFFICULT HILLY TERRAIN.
- REQUIREMENT OF BACKPACKERS FOR CARRAIGE OF GARBAGE. NON AVAILABILTY OF PEOPLE FOR THIS WORK.
- SHORTAGE OF MANPOWER.
- AGEING FLEETS OF TRUCKS, HIGH MAINTAINENCE COSTS.
- INEFFECTIVE IEC.
- ACUTE NEED FOR TRAINING THE PEOPLE WHO ARE ACTUCALLY HANDLING GARBAGE FROM HOUSEHOLDS.
- DEFUNCT PROCESSING PLANT AT LANDFILL SIDE.
- THE PRESENT LANDFILL IS SATURATED- ALTERNATE SITE REQUIRED URGENTLY.





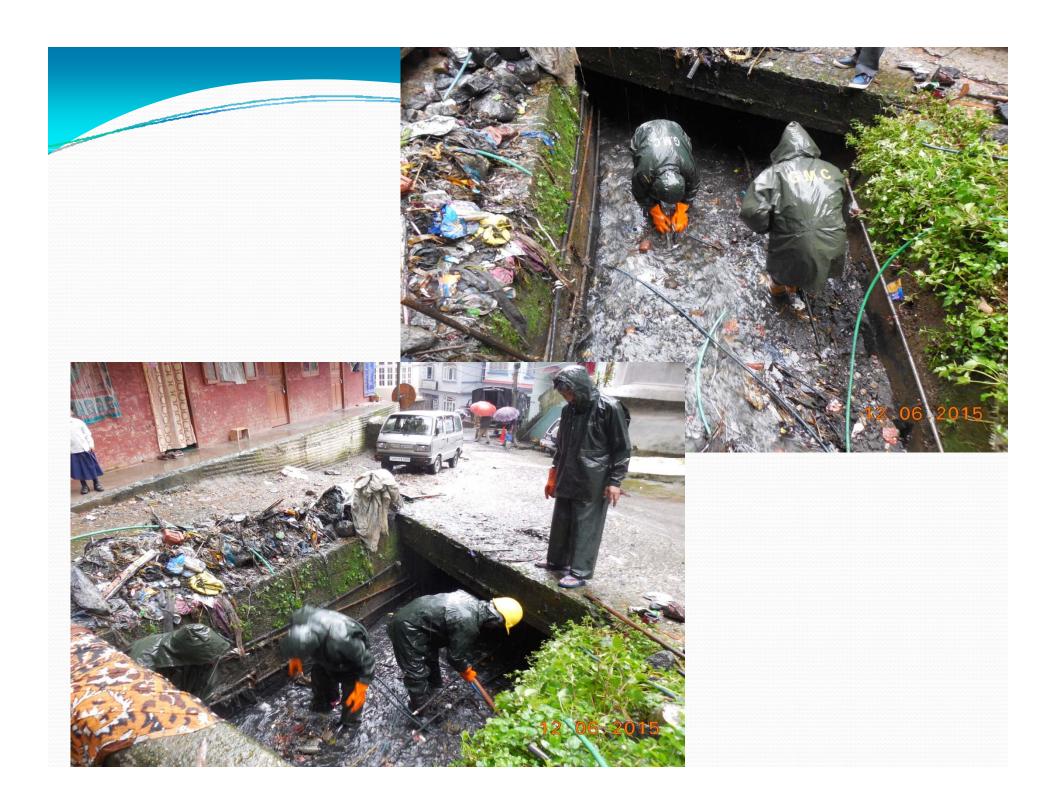
## Public Participation......













## THANK YOU ....

Prepared by: SUMAN RAI GMC