A PRESENTATION ON

SOLID WASTE MANAGEMENT IN IMPHAL CITY

Guwahati: 29th April, 2013

A presentation by Chief Town Planner, Manipur
MANIPUR - PHYSICAL PROFILE:

Hills

Valley
- As per 2001 Census, the urban population of Manipur was 5.50 lakhs.
- There are 28 towns in the State (2001 Census).
- 8 (eight) towns are municipal councils.
- 19 are nagar panchayats and 1 is small town committee.
- Excepting for one town & one STC, remaining urban areas are located in the valley districts of Imphal (W), Imphal (E), Thoubal & Bishnupur.
Imphal is the only class - I city of the State with population of 2,35,492.

There are 3 class - III towns in the State (Popl – 90,430).

Manipur has 9 class - IV towns (Popl – 1,28,295).

There are 11 class – V towns in Manipur (Popl – 81,027).

Remaining 4 towns are class – VI towns (Popl – 15,375).

There are no class –II towns in the State.
STATUS OF URBAN LOCAL BODIES:

- Excepting Imphal Municipal Council, the organisational set-up of all other ULBs in the State are very poor.

- Each of the 7 Municipal Councils have an Executive Officer, and meagre technical staff.

- In case of Nagar Panchayats and Small Town Committee, the office of the Executive Officer is manned by an ex-officio (SDC) official of Revenue Dept. and assisted by a clerk.
• Population of Imphal city as per 2001 Census was 2,50,234.

• Per capita solid waste generation was 0.30 kg/person/day.

• The quantity of solid waste generation in Imphal at 2006 was estimated at about 70 tonnes/day.

• Quantity of waste generation has increased from 70 tons/day in 2006 to 96 in 2011 and amount of waste is estimated to reach 120 tons in 2031. A proper planning of SWM seems to be the need of the hour for a sustainable environment in the city.
Present Status SWM for Imphal

- The present site lacks proper facility & is sometimes difficult to access during monsoon seasons.
- There is no processing of MSW at this site.
1st Initiative by State – a bin less city

- A new approach for achieving clean Imphal city was felt necessary.
- As a first step, the Municipal Council area divided into 5 Zones
- Task of collecting MSW from each of the 5 zones handed over to 5 NGOs.
- For the first time house to house waste collection started w.e.f August, 2007.
Door-to-door collection of MSW and delivery to present site has been privatised through engagement of NGOs.

It was intended that engaging NGOs will encourage direct collection from residents on payment of monthly charge.

But due to inadequate participation by residents, 100% coverage is yet to be achieved.
Lack of residents’ participation is due to following reasons:

- Inadequate awareness of NGOs’ work.
- Existence of open spaces in the neighbourhood, which people find more convenient to dispose daily garbage.
- Lack of confidence on the performance of the NGOs.
- Inadequate capacity of NGOs to handle the work.
To establish a treatment Plant

Works of SWM project of Imphal city under JnNURM are in final stage.

The project is taken up at a site measuring about 88 acres, in Lamdeng, Imphal (West)

ACA upto 3rd installment was released by GOI

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Approved cost (Rs. lakhs)</th>
<th>Approved CS (Rs. lakhs)</th>
<th>ACA released (Rs. lakhs)</th>
<th>SS released (Rs. lakhs)</th>
<th>Total released (ACA+SS) Rs in lakhs</th>
<th>Utilization (Rs. lakhs)</th>
<th>% Utilized against released</th>
<th>Phy. Progress (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWM for Imphal</td>
<td>2,580.7</td>
<td>2,322.6</td>
<td>1,509.7</td>
<td>1,422.3</td>
<td>2,932.0</td>
<td>2,426.6</td>
<td>82.8%</td>
<td>80.0%</td>
</tr>
</tbody>
</table>
Government of Manipur

Proposed site

AIRPORT
The project will comprise of the following units:

<table>
<thead>
<tr>
<th>Unit/ Category</th>
<th>Components</th>
</tr>
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<tbody>
<tr>
<td>MSW handling, Processing &amp; Treatment Facilities</td>
<td>(1) Weigh bridge, Waste receiving platform, Equipments for processing composted/digested MSW Maturation Yard, Refinement section for Composted fraction of MSW.</td>
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<td></td>
<td>(2) Bagging Plant.</td>
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<td></td>
<td>(3) Sanitary landfill for inert rejects of MSW.</td>
</tr>
<tr>
<td>Site Infrastructure</td>
<td>Evaporation Tank, Weigh bridge, Administrative block, Vehicle maintenance block, Sub-Station, Green belt, internal road etc.</td>
</tr>
</tbody>
</table>

About 15-20 tonnes of good quality compost/organic manure expected from the Plant.
Machinery & Equipments for SWM
SWM site:- Physical Progress

Main Gate

Admin. Block

Sanitary Landfill

Compound Fencing
SWM site:- Physical Progress

Compost Pad

Evaporation Tank
The SWM project has to be supported by a proper mechanism of collection/delivery of MSW.

- Street Sweeping (IMC/NGO)
- Door-to-Door Collection (NGOs)
- Collection from CBD (NGO/IMC)
- Transportation
- SWM Site

Lack of interest/participation by households

Zero Garbage initiative

Lack of cooperation.
3rd Initiative by State

- There was an urgent need to clear all the garbage from the city in 2010.

- A “ZERO GARBAGE” campaign was launched.

- As a part of the campaign, IMC undertook a hectic media campaign (advertisement, posters, panel discussions, interviews, video recordings of ward-wise campaign etc.).

- 3 Awareness meetings in each ward to be chaired by the concerned MLAs involving local clubs, Cleanliness competition etc.
Operationalising SWM for Imphal

The SWM project has to be supported by a proper mechanism of collection/delivery of MSW.

- Door-to-Door Collection (NGOs)
- Street Sweeping (IMC/NGO)
- Zero Garbage initiative
- Collection from CBD (NGO/IMC)
- Lack of interest/participation by households
- Lack of cooperation
- Transportation
- JnNURM Support
- SWM Site
There was an urgent need to clear all the garbage from the city.

A “ZERO GARBAGE” campaign was felt necessary.

As a part of the campaign, IMC undertook a hectic media campaign (advertisement, posters, panel discussions, interviews, video recordings of ward-wise campaign etc.)

This ‘campaign’ was not delivering the desired result.
The Manipur Municipalities (Cleanliness & Sanitation) Model Byelaws, 2009 was approved by the State Cabinet in February, 2009.

It was adopted by the IMC in 2012.

The basic objective of this Byelaw is to:

- To provide proper norms for civic behaviour;
- Maintain different cleanliness & sanitation practices;
- Failure to observe will attract fines from all types of generator of wastes, be it individual or owner of a property or an institution or a commercial or industrial complex.
THE IMPHAL MUNICIPAL COUNCIL (CLEANLINESS & SANITATION) BYE-LAWS, 2011

The Byelaws is framed in under Section 213 of the Manipur Municipalities Act, 1994. The basic objective of this Bye-Laws is to provide proper norms for civic behaviour. Under the provisions of this Bye-Laws, violation of such norms will attract fines from all types of generators of waste, be it individual or owner of a property or an institution or a commercial or industrial complex.

Schedule of Fines for breaching the Byelaws:

- Littering Fine: Rs. 200/-
- Spitting Fine: Rs. 100/-
- Urinating Fine: Rs. 200/-
- Bathing Fine: Rs. 100/-
- Feeding Animals & Birds Fine: Rs. 200/-
- Washing of Vehicles Fine: Rs. 500/-
- Littering by Pets Fine: Rs. 200/-
- Washing Clothes/ Utensils Fine: Rs. 200/-
- Defecating Fine: Rs. 100/-
- Not disposing garden waste in specified manner Fine: Rs. 100/-
- Disposing unsegregated Bio-degradable waste Fine: Rs. 100/-
- Disposal of waste by burning Fine: Rs. 100/-

Issued by: IMPHAL MUNICIPAL COUNCIL

MY CITY IS GETTING READY!
SIGN UP TODAY
ZERO-GARbage CAMPAIGN

Issued by: Imphal Municipal Council
Imphal Municipal Council (Cleanliness & Sanitation) Bye-Laws, 2011 has been effected since 4th April 2012. All the shopkeepers are requested to provide 2 LITTERBINS in front of their shops. Green colour bin for BIO-DEGRADABLE waste and any other colour for NON-DEGRADABLE waste as shown here.

Issued by: IMPHAL MUNICIPAL COUNCIL
PROHIBITION OF LITTERING & OTHER NUISANCES IN PUBLIC PLACES:

Littering on any private property: No person shall throw or deposit litter on any occupied, open or vacant private property, except in authorized private or public receptacles.
Litter throwing from vehicles: No person shall throw or deposit litter upon any street, road, sidewalk, playground, garden, traffic island or other public places from any vehicles either moving or parked.
PROHIBITION OF LITTERING & OTHER NUISANCES IN PUBLIC PLACES:

Creating Public Nuisance:

No person shall cook, bathe, spit, urinate, defecate, feed animal or birds, repair/wash vehicles, utensils or any type of storage in any public place except in such public facilities or convenience specifically provided for any of these purposes.
Ensuring “Clean Public Courtyard”: Every owner or occupier of premises, other than residential premises, shall be responsible for maintaining clean “public courtyards”.

PROHIBITION OF LITTERING & OTHER NUISANCES IN PUBLIC PLACES:
OBLIGATORY RESPONSIBILITIES OF MUNICIPALITY & GENERATORS OF WASTE:
(specific categories/situations)

- Public gathering and events
- Receptacles on private property
- Problem of Car parking on streets/roads
- Other public places
- Sticking of posters and painting on walls
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- Spitting Fine: Rs. 100/-
- Unrolling Fine: Rs. 200/-
- Refilling Fine: Rs. 100/-
- Feeding Animals & Birds Fine: Rs. 200/-
- Washing of Vehicles Fine: Rs. 500/-
- Littering by Pets Fine: Rs. 200/-
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Every owner or occupier of premises, other than residential premises, shall be responsible for maintaining clean “public courtyards”.
**OBLIGATORY RESPONSIBILITIES OF MUNICIPALITY & GENERATORS OF WASTE:**
*(specific categories/situations)*

- **LITTER BY OWNED ANIMALS**
- **PROMPLY SCOOP/CLEAN UP ANY LITTER CREATED BY PET ANIMAL ON THE STREET OR ANY PUBLIC PLACE**
SEGREGATION, STORAGE, DELIVERY AND COLLECTION OF MUNICIPAL SOLID WASTE:

Burning of waste:

*Disposal by burning of any type of solid waste at roadsides or any private or public premises is prohibited.*
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Issued by: IMPHAL MUNICIPAL COUNCIL
5th Initiative by State

- Introduction of Kangshi Gari (Bell Gari)
- Convergence with SJSRY by utilising funds under UWEP component in MSW management.
“Kangshi Gari”- Bell Gari
6th Initiative by State

(in the pipeline)

- Establishment of Self help groups under UWSP of SJRY with further incentive from state to be involved in House to House Collection of MSW.
- Likely to be launched on 04.05.2013.
Thank You