

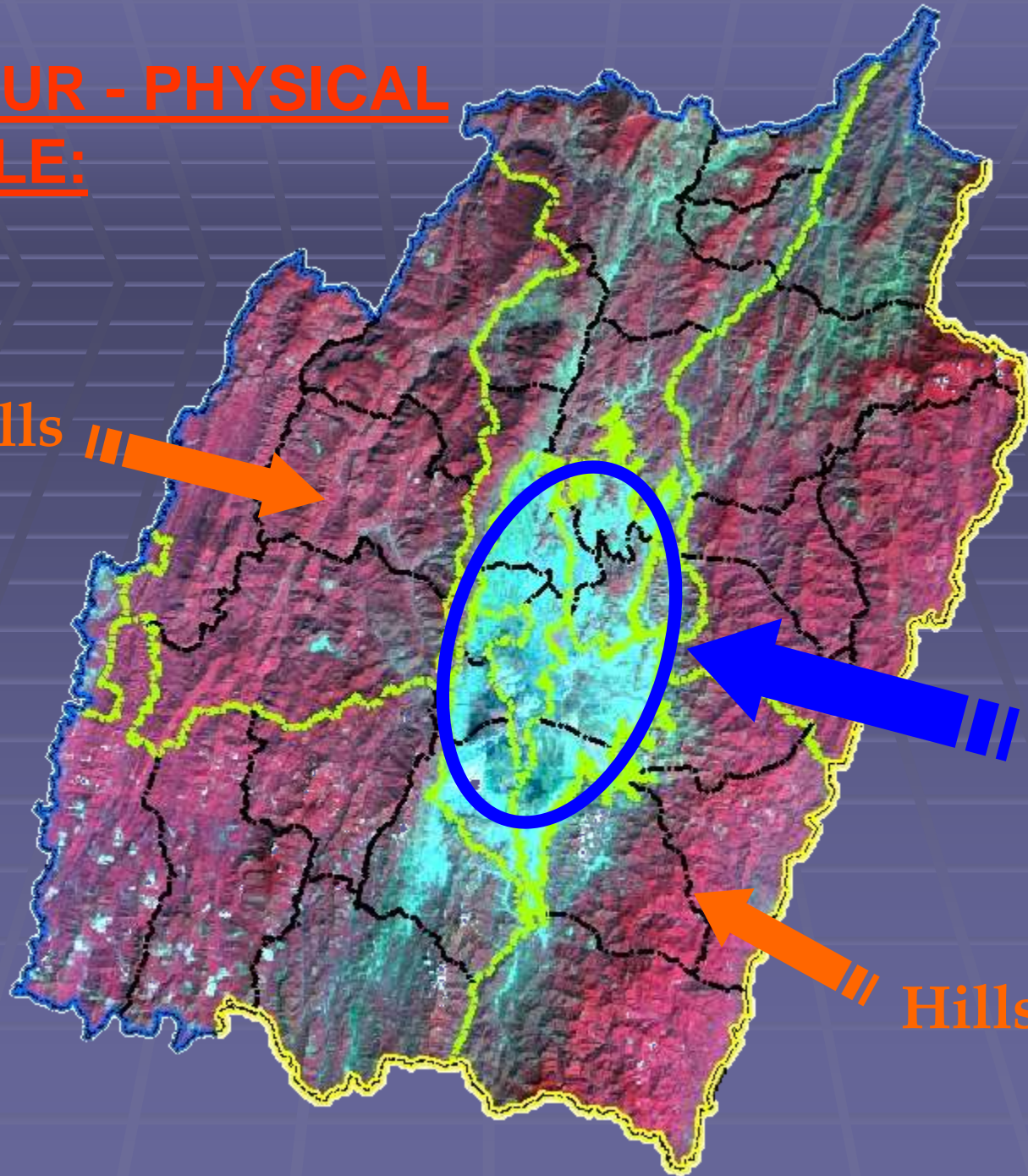
**A PRESENTATION  
ON  
SOLID WASTE MANAGEMENT  
IN IMPHAL CITY**

**Guwahati: 29<sup>th</sup> April, 2013**

**A presentation by Chief Town Planner,  
Manipur**

## MANIPUR - PHYSICAL PROFILE:

Hills



Valley

Hills

- 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.

## CATEGORY OF TOWNS

- ➔ 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.

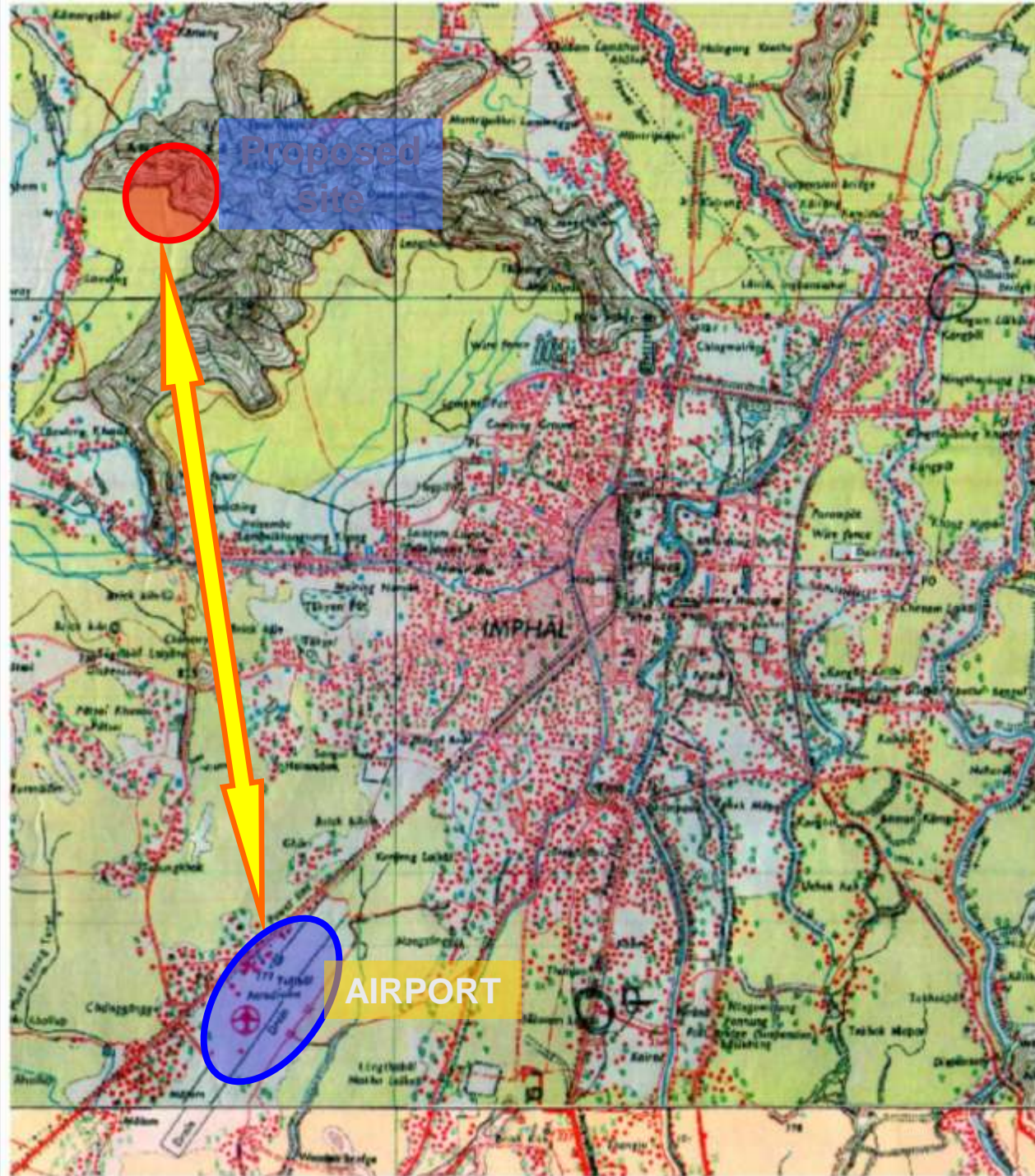


## 2<sup>nd</sup> Initiative by State

- ➡ 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 3<sup>rd</sup> installment was released by GOI

Name of Project	Approved cost (Rs. lakhs)	Approved CS (Rs. lakhs)	ACA released (Rs. lakhs)	SS released (Rs. lakhs)	Total released (ACA+SS) Rs in lakhs	Utilization (Rs. lakhs)	% Utilized against released	Phy. Progress (%)
SWM for Imphal	2,580.7	2,322.6	1,509.7	1,422.3	2,932.0	2,426.6	82.8%	80.0%





➡ The project will comprise of the following units:

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

➡ 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**

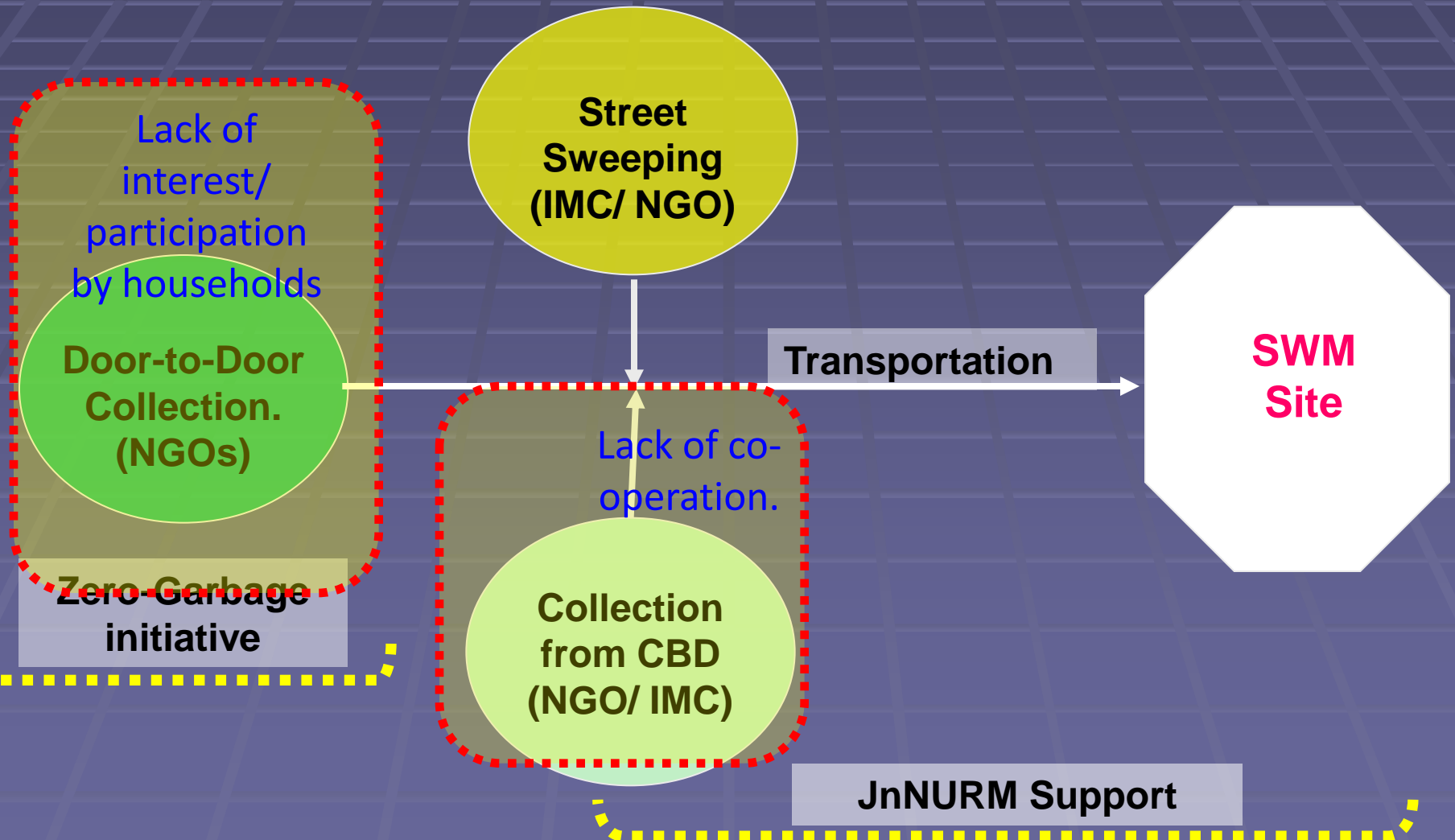


**Evaporation Tank**



# Operationalising SWM for Imphal

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





## 3<sup>rd</sup> 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.



Advt



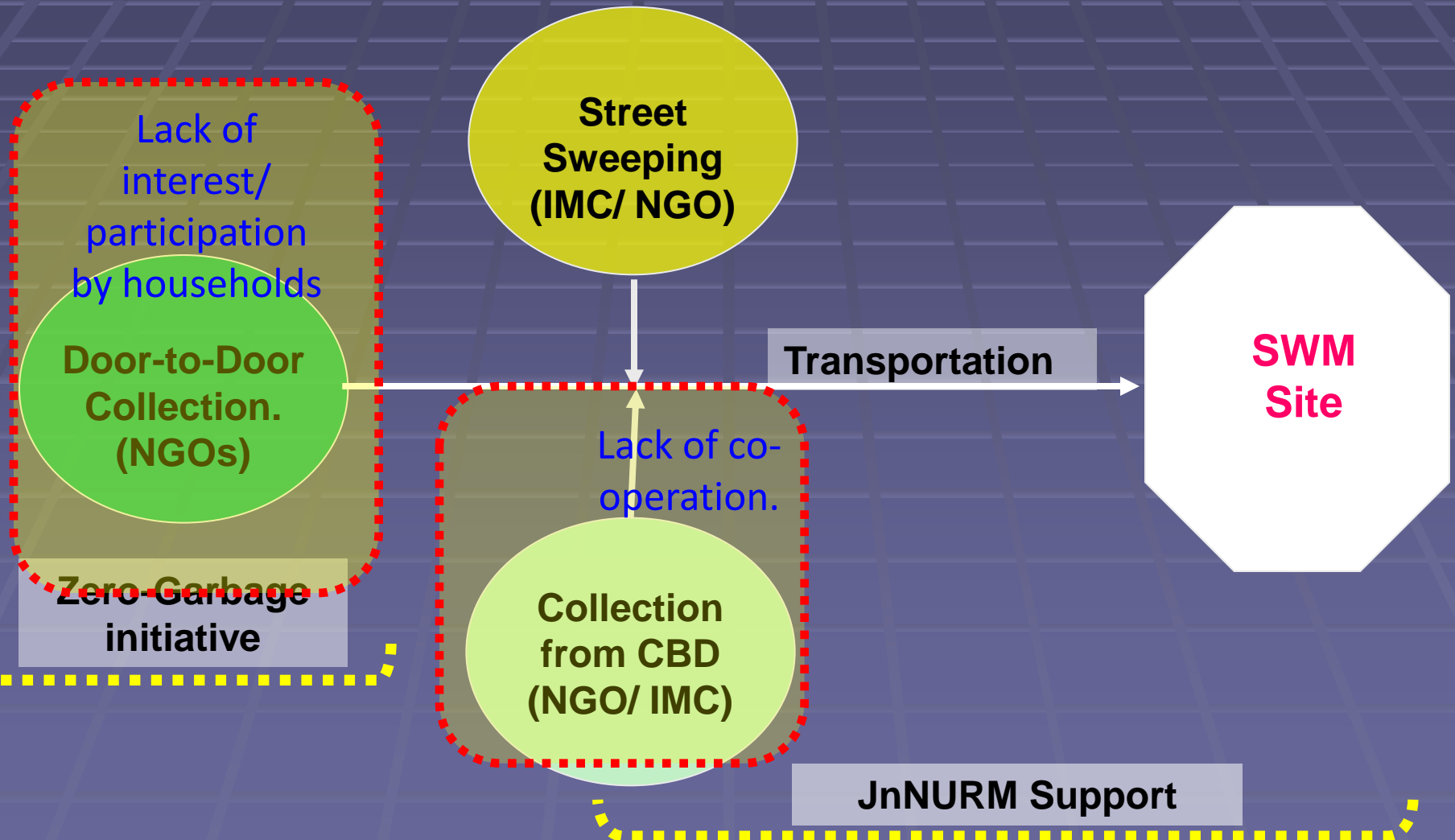
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- ➡ This 'campaign' was not delivering the desired result.



Advt



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- ➔ 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/-



Vehicles filled with waste/ litter should be covered.

Issued by: IMPHAL MUNICIPAL COUNCIL



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.



## PROHIBITION OF LITTERING & OTHER NUISANCES IN PUBLIC PLACES:



➤ **Litter throwing from vehicles:** No person shall throw or deposit litter upon any street, road, side walk, 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.





## PROHIBITION OF LITTERING & OTHER NUISANCES IN PUBLIC PLACES:



### Ensuring “Clean Public Courtyard”:

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)**

- **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**

## 3<sup>rd</sup> Initiative by State

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Advt



song





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Vehicles filled with waste/ litter should be covered.

Issued by: IMPHAL MUNICIPAL COUNCIL

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

Truck - Mounted Sweeper  
MAX SWEEP

Issued by: Imphal Municipal Council



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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**
- **PROMPTLY 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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## 5<sup>th</sup> 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



## 6<sup>th</sup> 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