



Zonal Workshop on SWM Rules

By: PRAJA and URJA

Introduction to Solid Waste Management

- ❖ Proper disposal of the waste generated by an:
 - ❖ Individual, bulk generator, household, institution, industry and shop keepers.
 - ❖ The hierarchical process of its disposal involving administration, elected representatives, informal sector, RWA/MTA etc. to achieve zero waste ward.
 - ❖ Based on the territorial difference of localities, city is categorized as Plotted , Group Housing Society, old neighborhood, slum & JJ clusters and unauthorized colonies.

Classification of Waste



Metal waste unused metal sheet, metal scraps etc.



Plastic waste plastic bags, bottles, bucket, etc.



Industrial waste waste which is produced by industrial processes or activities.



E-waste discarded electronic devices such as computer, TV, music systems etc.



Nuclear waste unused materials from nuclear power plants Further we can group all these type of waste into wet waste (Biodegradable) and dry waste (Non-biodegradable).

What to Segregate from the waste?

- ❖ Wet waste
- ❖ Recyclable
- ❖ E-waste
- ❖ C & D waste
- ❖ Hazardous waste
- ❖ Bio-degradable waste

Ways to disposal

- ❖ **Segregation at source** with the help of (Use of home composters, composting in neighborhood parks)
- ❖ **Wet waste** decentralized processing by organic waste composter, Bio-methanation etc. Centralised/Semi Centralised/decentralised Bio-degradable waste processing Bio-Gas plants
- ❖ **Construction & Demolition Waste**
- ❖ Repurposing of Dhalao
- ❖ Recycling of waste
- ❖ Incineration or waste to energy plant

Duties of waste generators.- (1) Every waste generator shall,-

- (a) Segregate and store the waste generated by them in three separate streams namely **bio-degradable, non biodegradable** and domestic hazardous wastes in suitable bins and handover segregated wastes to authorised waste pickers
- (b) wrap securely the used sanitary waste like diapers, sanitary pads etc.
- (c) store separately construction and demolition waste, store horticulture waste and garden waste generated as and when generated, in his own premises
- (d) No waste generator shall throw, burn or burry the solid waste generated by him, on streets, open public spaces outside his premises or in the drain or water bodies.

Contd.

(e) All waste generators shall pay such user fee for solid waste management, as specified in the bye-laws of the local bodies.

(f) No person shall organize an event or gathering of more than one hundred persons at any unlicensed place without permission from ULB

(g) Every street vendor shall keep suitable containers for storage of waste generated during the course of his activity.

(f) All **resident welfare, gated community, hotels and market associations** shall, within one year in with the ULB ensure segregation of waste at source, facilitate collection, handover recyclable material to either the authorized/unauthorized recyclers. The bio-degradable waste shall be processed, treated and disposed off through composting or bio-methanation.

- ❖ **Duties of the Secretary–in-charge, Urban Development in the States and Union territories**
 - The Secretary, Urban Development Department in the State or Union territory through the Commissioner or Director of Municipal Administration or Director of local bodies shall,-
Prepare a state policy and SWM strategy in consultation with stakeholders including representative of waste pickers, self help group and similar groups working in the field of waste management consistent with these rules, national policy on solid waste management and national urban sanitation policy of the ministry of urban development, in a period not later than one year from the date of notification of these rules.

- ❖ **Duties and responsibilities of local authorities-**
 - Prepare a SWM plan as per state policy and strategy on solid waste management within six months
 - Arrange for door to door collection of segregated solid waste from all households including slums and informal settlements, commercial, institutional and other non residential premises

What is the Role of a Municipal Councilor?

- ❖ Councilors must communicate the needs of the community to the municipal council and the council processes to the community related to SWM.
- ❖ Councilors must monitor the performance of the municipality; raise issues of concern with the relevant bodies and provide feedback on the municipalities performance on SWM.

Administration Role

- ❖ Plan Colony level need based model
- ❖ Constitute Safai Nigrani samiti at ward level
- ❖ Connect with Recyclers
- ❖ Appoint & Recognise Vendors , Informal sector
- ❖ Plan maximum disposal of waste at ward level
- ❖ Overflow of ward level must be disposed off at zonal level
- ❖ Whatever are left must be disposed at corporation level/state level
- ❖ work on to reinforce the moral ethical operational values within and outside

Expectations from Municipalities

According to the Municipal Systems Act, a basic service is one that ensures an acceptable and reasonable quality of life with regards to water, sewage, refuse removal, roads and storm-water control, electricity, housing and firefighting.

Section 152 of the Constitution sets out the five focus areas of Municipalities:

1. Provide democratic and accountable government.
2. Provide services in a sustainable manner.
3. Promote social and economic development.
4. Promote a safe and healthy environment.
5. Encourage the involvement of communities.

Zonal Level plan

- ❖ Access the quantum of waste generated of inert and other waste in Zone
- ❖ Access the overflow waste available in the zone after completing ward level plan
- ❖ Mark space for its proper disposal (like collection centers)
- ❖ Target zero waste zone

How to effectively control disposal of waste in each ward

- ❖ Access the quantum of wet and dry waste
- ❖ List RWA, MTA, ITA, Informal sector etc.
- ❖ Mark space for composting
- ❖ Repurpose the use of Dhalao
- ❖ Adopt method/process of wet waste composting
- ❖ Mark C & D waste collection points
- ❖ Notify vendors , Recyclers
- ❖ Set Timeline-Target- Zero waste ward
- ❖ Announce Recognitions
- ❖ Capacity Building -Training modules for ground staff
- ❖ Regular evaluation & Monitoring
- ❖ EPR-Extended Producer responsibility

Municipal Councillor's working Challenges

- ❖ Shortage of man-power to deliver timely and qualitative municipal services
- ❖ Non-availability of a structured public consultation process/mechanism-under 74th Constitution Amendment say RWC
- ❖ Absence of structured RWA/MTA units
- ❖ Recording of public grievances and its action taken report on a municipal portal
- ❖ Govt. Initiatives- Swachha Bharat- SWM, ODF, EPR, No to Plastic etc. integrated working with opposite ground realities
- ❖ Sanitation, garbage disposal, illegal construction, RWH, gardening recycle water, vendor regularization, pedestrian friendly walkways, street light, drainage, public transport-local, Urinals, road singages etc.
- ❖ Information sharing (Public) of waste disposal and collection points of C&D

Model Ward for SWM- Rule 2016

North DMC- 1.Rajinder Nagar 2. Rohini 3.Pitam Pura

- ❖ Distribution of Bins and holding of prelim meetings within the corporation staff and with RWA/MTA , informal sector
- ❖ Preparatory work on partitioning of Tippers
- ❖ Door to door contact with individual generator
- ❖ Collection of segregated garbage initiates
- ❖ Waste collectors knowledge building

Challenges:

- ❖ Work on Repurpose of Dhalao
- ❖ Knowledge building & behavior change of staff
- ❖ Partial acceptance of public
- ❖ Develop innovative ways for public behavior corrections
- ❖ Formation of Safai Nigrani samiti
- ❖ Joint meetings of generator, collectors & disposal units
- ❖ Ward level zero waste management planning ??

4R's of Solid Waste Management



Source: Adopted from Handbook on SWM by Praja 2018

[https://www.praja.org/praja_docs/praja_downloads/Handbook%20on%20Solid%20Waste%20Management%20\(English\).pdf](https://www.praja.org/praja_docs/praja_downloads/Handbook%20on%20Solid%20Waste%20Management%20(English).pdf)

Thank You

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